



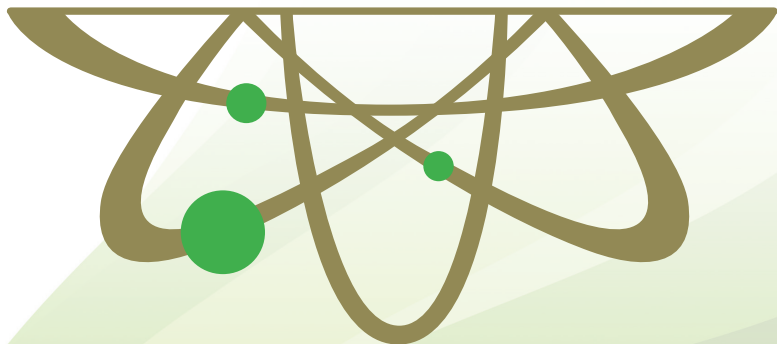




2013

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A word from the President



Dear SYMPHOS participants,

After a successful first edition in 2011, I am pleased to welcome you, this year, to the second edition of the International Symposium on Innovation and Technology in the Phosphates Industry, in Agadir.

SYMPHOS 2013 is the phosphate industry event of the year, offering a rich technical program and a valuable participation of world renowned experts, scientists, engineers and professionals from active companies in the phosphate industry.

The latest technology and scientific knowledge in various fields will be discussed through :

- 6 exceptional plenary conferences
- 10 keynote presentations
- 144 presentations in 15 themes covering a wide range of professions and areas of interest of the phosphate industry
- 9 short courses on important topics for the phosphate industry
- 3 debate conferences addressing the innovation issue and presenting the guidelines and ethics of writing scientific articles
- 10 workshops addressing the phosphate industry challenges from mining to chemicals and covering all the related themes in more than 40 oral communications.
- 4 novelty show sessions of 4 companies exposing their latest innovations
- 2 site visits to Khouribga & Jorf Lasfar are scheduled for 80 participants
- An exhibition space with more than 100 booths for companies presenting their activities, products and services.
- A space for up to 3450 B-to-B meetings giving you the chance to initiate or develop direct contact with your current or future partners.
- Without forgetting the innovation of this year which is SYMPHOS TV that will cover most of the SYMPHOS 2013 activities.

I hope that this year's edition will be an unforgettable experience for each participant. I am honored to take part in this incredible event that will strengthen not only our sector but our national economies as well. We are all here today because we have the same objectives and ambition to:

- Share knowledge, innovative ideas, sustainable development and economic progress, along our passion for the phosphate industry,
- Learn from each other's experiences;
- Imagine a new future for our field.

Thanks to your participation and involvement, SYMPHOS was a great success in 2011. This year, we look forward to amplifying this experience and taking it to new heights. We are thankful for your presence in Agadir and we hope you enjoy your stay in Morocco.

Mr. Amar DRISSI

EVP operations, OCP
SYMPHOS President





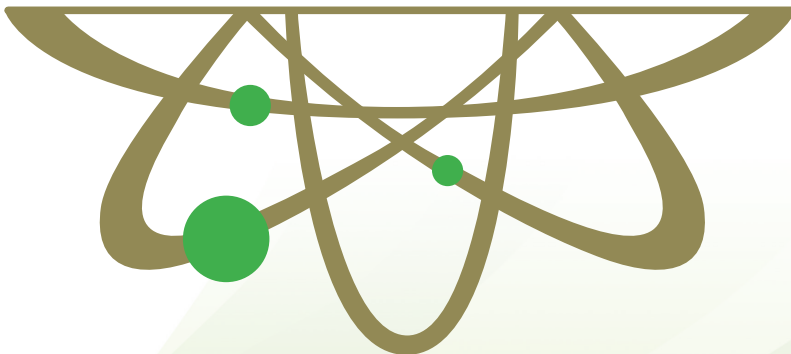
OCP GROUP

A world leader on the market of the phosphate and its derivatives, OCP operates on the five continents and has the largest phosphate ore reserve in the world.

With more than **90 years of experience** in the mining industry and more than **45 years of expertise** in chemistry, OCP offers one of the largest ranges of phosphate qualities for various uses.

The leading exporter of phosphate and phosphoric acid in the world, OCP is one of the major exporters of phosphate-enriched fertilizers.

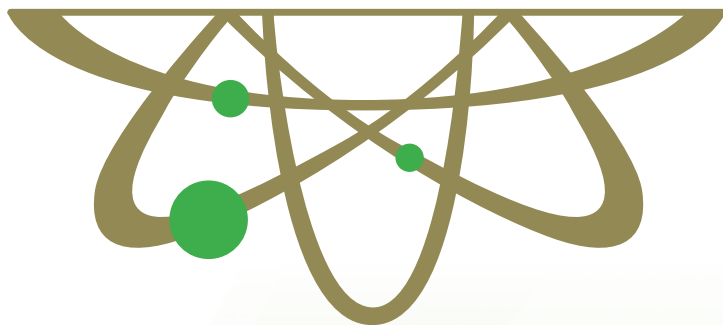
OCP plays a central role in the operational areas of its mines and production facilities and directly employs **more than 20.000 people** worldwide.







TECHNICAL PROGRAM





RECEPTION AND REGISTRATION OF PARTICIPANTS

DAYS	Sunday May 5 th to Friday May 10 th
TIME	9:00 am - 7:00 pm
LOCATION	Lobby Hotel Sofitel Royal Bay Resort

OPENING & CLOSING CEREMONIES

OPENING CEREMONY	
DAY	Wednesday May 8 th
TIME	10h00 am -12h00 am
LOCATION	ROOM SAFRAN
CHAIRPERSON	Mr Fouad LAROUÏ - Amsterdam University, Netherlands
PROGRAM	Welcoming remarks from: • The Chairman & CEO of OCP • Moroccan Ministers • The President of SYMPHOS & EVP Operations, OCP
12:00pm - 12:30pm	EXHIBITION AREA INAUGURATION

CLOSING CEREMONY	
DAY	Friday May 10 th
TIME	7:00 pm - 8:00 pm
LOCATION	ROOM SAFRAN
PROGRAM	Closing Speech of Mr. Amar DRISSI EVP operations, OCP & SYMPHOS President

B2B MEETINGS & EXHIBITION VISITS

DAYS	Monday May 6 th - Friday May 10 th
TIME	8:00 am - 7:00 pm

SITES VISITS

DATE	Monday, May 6 th
CIRCUIT	Visits to the OCP facilities Jorf Lasfar & Khouribga



PLENARY & KEYNOTE SESSIONS

WEDNESDAY MAY 8TH

TIME: 10:00 am - 12:00 am
LOCATION: ROOM SAFRAN

INAUGURATION	CHAIRMAN : Mr Fouad LAROUÏ – Amsterdam University, NETHERLANDS
	OPENING CEREMONY Welcoming remarks from • The Chairman & CEO of OCP • Morocco Ministers • The President of SYMPHOS & EVP Operations, OCP
	PLENARY CONFERENCE 1: L'Innovation: Concepts, Pratiques et Enseignements M. Elmar Mock Président (Co-créateur de Swatch) – CREAOLIC, Suisse

TIME: 2:00 pm - 3:30 pm
LOCATION: ROOM SAFRAN

MINING	CHAIRMAN : Mr Amit ROY – President and CEO of the international Fertilizer Development Center, USA CO-CHAIRMAN : Mr Houssaine BOUHIAOUI – Directeur Site de Khouribga, OCP – Maroc
	PLENARY CONFERENCE 2: Innovation and technology, Engines for the Future of Mining: DIGITAL CONDELCO'S case Mr. Silva Marco Orellana Chief Information Officer Cdt, Codelco, Chile
	KEYNOTE 1: Mining of Phosphate: Review of mining methods and equipment used in phosphate mines around the world. Mr. Daniel Gagnon P. General Manager – Mining group – Met-Chem, Canada
	KEYNOTE 2: Comprehensive Recovery and Sustainable Development of Phosphate Resource Mr. Patrick Zhang Ph.D. Research Director – Beneficiation & Mining
	Debate with the audience (15 mins)



PLENARY & KEYNOTE SESSIONS

THURSDAY MAY 9TH

TIME: 8:30 am - 10:00 am
LOCATION: ROOM SAFRAN

WATER, ENERGY & SUSTAINABLE DEVELOPMENT	CHAIRMAN : Mr David FUNG - Chairman and CEO. ACDEG Group. Canada CO-CHAIRMAN : Mr Jamal Chaouki – Director of Biorefinery Center Chemical Eng. Dept.E Montréal - CANADA
	PLENARY CONFERENCE 3: Lessons in sustainability from the mining industry Mr Robin Batterham Kernot Professor of Engineering & former Group Chief Scientist of Rio Tinto and President of the Australian Academy of Technological Sciences and Engineering. The University of Melbourne AUSTRALIA
	KEYNOTE 3: Building a Business Case for Sustainability Mr. James Weigand President, DuPont Sustainable Solutions - USA
	KEYNOTE 4: Numerical Simulation and High Performance Computing in some industrial applications - Examples in Oil and Gas Industry Mr Philippe Ricoux Directeur IT, Modeling and Numerical Processing, Scientific division; Total SA - France
	Debate with the audience (15 mins)

TIME: 2:00 pm - 3:30 pm
LOCATION: ROOM SAFRAN

MATERIALS & NEW PRODUCTS	CHAIRMAN : Mr. Robin BATERHAM - Kernot Professor of Engineering & former Group Chief Scientist of Rio Tinto and President of the Australian Academy of Technological Sciences and Engineering CO-CHAIRMAN : Mr Patrick ZHANG – Ph.D. Research Director – Beneficiation & Mining – FIPR - USA
	PLENARY CONFERENCE 4: A forward look into rare earth Supply and demand: a role for sedimentary phosphate deposits? Mr. Patrice Christmann Deputy Director of BRGM's Corporate strategy directorat. BRGM, France
	KEYNOTE 5: Processus Innovation, son articulation et son pilotage Mr. Antoine Dubedout President PROPENERG et responsable de la chaire «Ingénierie et innovation». Ecole des Mines de Nancy, France
	KEYNOTE 6: Energy Storage Opportunities in Morocco Mr. Ilias Belharouak Materials Scientist Energy storage Expert - Argonne National Laboratory. USA
	Debate with the audience (15mins)



PLENARY & KEYNOTE SESSIONS

FRIDAY MAY 10TH

TIME: 8:30 am - 10:00 am
LOCATION: ROOM SAFRAN

CHEMICALS	CHAIRMAN : Mr. Lal Rattan - Distinguished University Professor of Soil Science, SENR, USA CO-CHAIRMAN : Mr Mustapha EL OUAFI - Directeur de Production et de Site Jorf Lasfar, OCP SA Morocco
	PLENARY CONFERENCE 5: Rapid growth and evolution of the global chemical industry, Impacts on the Phosphate Industry M. David FUNG. Chairman and CEO. ACDEG Group. Canada
	Keynote 7: Performance Phosphate Products Brand Reveal Mhamed IBNABDELJALIL EVP & Chief Commercial Officer, OCP, MOROCCO
	Keynote 8: From mine to speciality advanced materials, future challenges and potential innovations for the phosphate industry M. Fabrice RENARD Chief Innovation Officer. Prayon, Belgique
	Debate with the audience (15mins)

TIME: 2:00 pm - 3:30 pm
LOCATION: ROOM SAFRAN

AGRONOMY & FERTILIZERS	CHAIRMAN : Mr Fouad Laroui – Amsterdam University, NETHERLANDS CO-CHAIRMAN : Mr Mohamed Mahmoud Ali - Studies Department Manager - AFA , Egypt
	PLENARY CONFERENCE 6: A New food equation Mr. Mohamed Ait KADI President of the General Council of Agricultural Development, Morocco
	KEYNOTE 9: « Food Security and Soil Fertility Restoration in Africa». Mr. Rattan Lal Distinguished University Professor of Soil Science, SENR Carbon Center sequestration, Colombia
	KEYNOTE 10: Cadmium and Phosphorous Fertilizers : The Issues and the Science Mr. Terry ROBERTS President - International Plant Nutrition Institute (IPNI), USA
	Debate with the audience (15mins)



SHORT COURSES

Monday 9:00 am - 1:00 pm / 3:00 pm - 5:00 pm

Room ouarzazate

SHORT COURSE 1:

ICM versus JORC guidelines, 43-101 regulation for mineral resources and reserves estimation

Dr Daniel Gagnon, Ing. (General Manager – Mining Group, Met-Chem Canada Inc.)
et Schadrac Ibrango, Ph.D., P.Geo. (Senior Geologist, Met-Chem Canada Inc.)

Course language: French

Room tarroudant

SHORT COURSE 2:

Techniques de flottation des minerais phosphatés

Professeur Mohammed El Asri, Faculté des Sciences et Techniques Fès

Course language: French

Room draa

SHORT COURSE 3:

The direct use of reactive phosphate rocks in crop production

Mr Abderrahim Nassir and Limamoulaye Cisse (OCP) Sri Rochayati and Husnain Husnain (ISRI)

Course language: English

Room lounge art

Short course 4:

HSE in design

Mr. Rachid M'Hamdi, Chef de department HSE in Design
et M. Zakaria Rachdad, ingénieur senior au department HSE in design à Jacobs Engineering S.A.

Course language: French

Tuesday 9:00 am - 1:00 pm / 3:00 pm - 5:00 pm

Room tarroudant

SHORT COURSE 5:

Technologies de Dessalement des Eaux de mer et des Eaux Saumâtres : Aspects Techniques, Energétiques et Exploitation

M. Azzedine Elmidaoui, Professeur (Président de la Société Marocaine des Membranes
et de Dessalement, Université Ibn Tofail, Kénitra, Maroc)

Course language: French

Room zagora

SHORT COURSE 6:

Mining and Sustainable Management

Mr Rachid Hakkou, Professor at Cadi Ayyad University,
Mr Mostafa Benzaazoua, Professor UQAT, Canada,
Mr. Chawky Beldjelida, Professor at CEGEP Abitibi, Québec, Canada

Course language: French

Room ouarzazate

SHORT COURSE 7:

Modélisation et simulation des procédés de transformation des phosphates

Pr. Tijani Bounahmidi

Course language: French

Room draa

Short course 8:

4 R Nutrient Stewardship for Improved nutrient use efficiency

A. Johnston, M. ElGharous, S. Zingore and H. Boulal (IPNI)

Course language: English

Room lounge art

Short course 9:

Process transformation in production, safety, and sustainability through information technology

Dr Sean Dussereault, Associate Professor - University of Arizona - USA

Course Language : English

Coffee break: 10:45 am - 11:15 am

Lunch: 1:00 pm - 3:00 pm



THEMATIC SESSIONS WEDNESDAY MAY 8TH

	Thematic session 1: Mining, extraction	Thematic session 2: Sulfuric Acid	Thematic session 3: Sustainable development
	Room: Salle SAFRAN Chairperson M. Silva Marco ORELLANA, Chief Information Officer Cdt, Codelco, Chile Co-Chairperson M. EL KASSI, Directeur site Gantour, OCP	Room: ARGAN Chairperson Ms. Kathy HAYWARD, Publisher, Sulfuric acid Today Co-Chairperson M. Ahmed HANINE, Directeur études & développement chimie, OCP	Room: Romarin Chairperson M. Andersen VOKLER, Director, Technical Committee, IFA Co-Chairperson M. Rachid HAKKOU, Professeur Université Kadi Ayyad, Maroc
4:00 pm - 4:20 pm	Méthodes d'extraction des phosphates à l'OCP : Une histoire de ruptures et défis pour la R&D Mr. Mansour Asri, OCP SA, Maroc	Spray Injectors within Large Capacity Molten Sulfur Combustion Spray Efficacy: Fluid-Structure Interaction Study Mrs. Kathleen Brown, Wojciech Kalata, and Rudolf Schick, Spraying Systems Co., USA	Waste valorization in phosphate industry: taking profit from the existing technologies. M. Abdelhak Kabbabi, OCP SA, Maroc, & Mme Hind Baddag, ECOVAL. HOLCIM Group, Maroc
4:20 pm - 4:40 pm	Recent advances precision surface mining techniques, Mr. Stephan Oppelaar, Mr Jim Hutchins. Vermeer EMEA, Netherlands.	Modélisation et développement d'un code de calcul pour la simulation de convertisseurs S02/S03 Mr. Belkacem Abdous, Lhachmi Khamar, Omari Lhoussaine. OCP SA, Maroc	Lead and Cadmium removal from aqueous solution using an industrial by-product gypsum. Mr. Mohamed Raii, Doan Pham Minh, Francisco Javier Escudero Sanz, Ange Nzihou, Ecole des Mines d'Albi-Carmaux, France
4:40 pm - 5:00 pm	ETF Haulage Trucks – Advanced Maintenance Systems. Mr. Eddy De Jongh ETF European Truck Factory GmbH. Germany	H2S Emission Control by Converting to NaHS Mrs. Safaa IbnGhazala, Salaheddine Albustami, Allal Khoudir, Abdessamad Nasri JESA, Maroc	Phosphates Limestone Wastes Drains to Increase pH and Remove Dissolved Metals from Acidic Mine Drainage. Mr. Rachid Hakkou, O. Ouakibi, S. Loqman and M. Benzaazoua LCME, Université Cadi Ayyad Marrakech Maroc
5:00 pm - 5:20 pm	Integrated Support Centres – the future of Dragline fleet monitoring, Mr. Mark Conolly. MineWare Pty Ltd. Austria	Optimization of S02 Scrubber using CFD Modeling Mr. Rudolf Schick, Kathleen Brown, Wojciech Kalata, Spraying Systems Co., USA	Le Management environnemental lors des réalisations des projets industriels : Cas du programme industriel de développement du Groupe OCP Rachid M'Hamdi, Zakaria Rachchad; Raja Al Echcheikh Jacobs Engineering S.A, Maroc
5:20 pm - 5:40 pm	Dragline Retrofit for AC Motion Power. Mr. Michael Casson. Flanders, USA	Polishing Filters, The answer to the increasing need for cleaner sulphur Mr. Jeroen Bouwman, Twin Filter, The Netherlands	Integrated Asset management - An Investment in Sustainability. Mr. Ken Henderson, Georg Pahlenkemper, Olaf Kraska ThssenKrupp Resource Technologies, Germany
5:40 pm - 6:00 pm	Monitoring of mine induced geotechnical hazards: a review of methods, technologies and future directions. Mr Pascal Bigarre, INERIS, France	Conception, réalisation et mise en service d'une « DUCT VALVE » à l'atelier sulfurique de Pakistan Maroc Phosphore Ouadie Senhajie OCP SA, Maroc	The Latest Generation Of The Electronic System Mr Sami Kara, William R. Adamson, William J. Reisz, Davey Bickford S.A.S, France
6:00 pm - 6:20 pm	Dust control management in the mining environment MM. Stefan Van Zweel, Louis Ledoux, Dust-A-Side, Centurion, South Africa	Nettoyage et neutralisation des bacs de stockage de l'acide sulfurique par un système à jet automatique EL Bahraoui Abdellah et Arhnaje Elmostafa KIMIA, Maroc	



THEMATIC SESSIONS

THURSDAY MAY 9TH

	Thematic session 4: Desalination technologies	Thematic session 5: Phosphoric acid production	Thematic session 6: Geology
	Room Argan Chairperson Mme Myriam BALABAN, Secretary General European Desalination Society Co-Chairperson M. Azeddinne EL MIDAOUl, Doyen Faculté des sciences Kénitra - Maroc	Room Safran Chairperson M. Marc COLLIN, Managing Director Prayon Technologies Belgium Co-Chairperson M. Brahim MOUFID, Directeur ODI, OCP	Room Romarin Chairperson M. Patrice CHRISTMANN , Deputy Director of BRGM's Corporate Strategy Directorate, BRGM - France Co-Chairperson M. Essaid JOURANI, Responsable Recherche géologique et minière, OCP SA
10:30 am - 10:50 am	Intake and Brine Discharge in SWRO Desalination : Two Case Studies Mr. Miguel Sanz, Sophie Bertrand Degremont, Spain	The Use of Automatic Controls in a Phosphoric Acid Reactor Mr. Astley Vaughn Dr Phosphate, USA	Reconnaissance géologique des phosphates du Maroc Mr. M'barek Amaghaz, Es-said Jourani, OCP SA, Maroc
10:50 am - 11:10 am	Current and Future Technologies for Enhanced Desalination Facilities Mr. Abdelkader Gaid, Jérôme Leparç, Philippe Bréant Veolia Water Technical Direction, France	New effective method to reduce sulfates in phosphoric acid NISSAN PROCESS Ahmed Mahrou, A BEN EL BOU - M LOUHZ OCP SA, Maroc	La géologie et la planification minière des gisements de phosphate. Mr. Youssef Daafi, Ahmed Chakir, Essaid Jourani, Sidi Mohammed Ouabba OCP SA, Maroc
11:10 am - 11:30 am	The pretreatment in the reverse osmosis plant Manuel Rubio Visiers AEDyR, Spain	Mersen mixers : An innovative design combining process optimization and energy efficiency Mr. Erik Loiseau MERSEN Brignais, France	Gisements de phosphate d'Afrique de l'Ouest : analogies géologiques et pré-enrichissement naturel des phosphates éocènes de Taïba-Tobène (Sénégal) et Saliquinhé-Farim (Guinée Bissau) Mr. Jean-Pierre Prian BRGM, The French Geological Survey, France
11:30 am - 11:50 am	Optimizing Process Designs with Energy Recovery Devices Mr. Borja Blanco Energy Recovery Inc., USA	From lab to plant: first industrial experience of the new high efficiency dihydrate hemihydrate process (DA- HF) for phosphoric acid production Mr. Tibaut Theys, Ms Dorina Fati, Mr Olivier Schrevens, Ms Agata Tarnowska, Ms Monika Zienkiewicz Prayon & Grupo AZOTY, Belgique	Gestion des risques post-miniers : Opération «Scanning mouvement de terrain». Mr. Frédéric Poulard ,INERIS, France
11:50 am - 12:10 pm	Energy Recovery in desalination plants. Mr. Beat Schneider, DWEER	Filtration technologies in phosphoric acid plants. Mr Mohamed Belghiti Alaoui, OCP SA, Maroc	Minéralogie des formes siliceuses de la série phosphatée des Oulad Abdoun (Maroc) Mr. Hamid EL Haddi, Benbouziane Abdelmajid, Mouflih Mustapha, Jourani Es-said & Amaghaz M'barek Faculté des Sciences Ben M'Sik, Maroc
12:10 pm - 12:30 pm	Advanced pretreatments in large desalination plants Mr. Manuel Fariñas Iglesias, Presented by Mr Mohamed Sebbane Acciona Agua, Spain	Optimization for Tilting Pan Filters Mr.Scott Yeo. Metalcraft Service of Tampa, USA	Geological modelling and estimation techniques of phosphate deposits. Mr. Schadrac Ibrango Met-Chem Canada Inc, Canada

THEMATIC SESSIONS

THURSDAY MAY 9TH

	Thematic session 7: Environment	Thematic session 8: OCP Industrial Management	Thematic session 9: Phosphate beneficiation
	Room Argan Chairperson M. François DEMARCO, Directeur Général délégué, BRGM France Co-Chairperson M. Mostafa BENZAAZOUA, Professor, chair holder, University of Quebec A.T. Research Institute in mining and environment	Room Safran Chairperson M. François CROSET, Professeur Ecole Centrale Paris Co-Chairperson M. El Mar MOCK, Président CREAHOLIC, Suisse	Room Romarin Chairperson M. Mohammed EL ASRI, Professeur FST Fès Maroc Co-Chairperson M. Chakour MOUNTASSIR, Maitre de recherche OCP SA
4:00 pm - 4:20 pm	Globalization of Phosphogypsum Regulations Mr. Nadim Fuleihan Ardaman & Associates - USA	OPS-OCP Production System MM. Hassan Chadli & Amine Louali OCP SA, Maroc	Le développement des procédés et des techniques d'enrichissement et de traitement des phosphates à l'OCP. Un chemin vers l'excellence pour assurer l'exploitation rationnelle et équilibrée des gisements de phosphates. Cas du Site de Khouribga. Mr. Alouani Abdelkader, Znibar Ahmed, OCP SA, Maroc
4:20 pm - 4:40 pm	Utilisation des phosphates marocains dans la dépollution des eaux contenant le Cadmium Mrs. Hind Yaacoubi, O. Zidani, M. Mouflih, M.Gourai, S.Sebti FS Ben M'sick, Maroc	OCP industrial Program- Management & innovation in complex industrial program Moutaouikil El Baraka OCP SA, Maroc	New technology for disagglomeration and slurring of Florida phosphate matrix Mr. Hagen Müller , Haver Engineering, Germany
4:40 pm - 5:00 pm	Effect of chemical and thermal treatment on the pollution and geotechnical properties of dredged sediment Mr. Jocelyn Ramarason, M Dia, A. Nzihou, R.Zentar, N.E. Abriak, G. Depelsenaire, A. Germeau Université de Toulouse, Mines Albi, France	Transformation du Management HSE à OCP Mr Ahmed foud Bahbouhi OCP SA, Maroc	Synergistic effects of environmentally friendly collectors in pre-concentration step of double float process on sedimentary phosphate ore Mr. Klaus-Ulrich Pedain, J.-C. Bezuidenhout, G. Lipowsky Clariant Produce GmbH, Germany
5:00 pm - 5:20 pm	Apatitic calcium phosphate based heavy-metal accumulator: treatment of gas phase pollutions Mr. Ange Nzihou, Mohamed Kemiha, Doan Pham Minh, Nathalie Lyczko, Patrick Sharrock Presented by : Mr Doan Pham Minh Université de Toulouse, Mines Albi, France	OPM- Innovation in managing production units Adil Bachiri OCP SA, Maroc	Procédés de la flottation des phosphates carbonatés et silico-carbonates: Etat de l'art et perspectives Mr. My Brahimi JOUTI, Chakour Mountassir, Hafid Zouhair et Etahiri Abderahman OCP SA, Maroc
5:20 pm - 5:40 pm	Hydroxyapatite and Alizarin sulfonate ARS modeling interactions for textile dyes removal from wastewaters Mr. Mohammed Oimar Mecherri Université de Tizi-Ouzou, Algérie	The Ecosystem Initiative of OCP Group Mr Youssef El Bari OCP SA, Maroc	Innovative RTS Technology for Dry beneficiation on phosphate Mr. Daniel TAO, Ahmed Sobhy, University of Kentucky, USA
5:40 pm - 6:00 pm	Calcium phosphate sorbent for environmental application Mrs. Nathalie Lyczko Université de Toulouse, Mines Albi, France	OCP Advanced phosphates training Mr Robert Beauchemin, SNC-Lavalin Mr Amine Louali, OCP SA, Maroc	Triboelectric belt separator for beneficiation of minerals Mr. Herve Guicherd , Stephen Gasiorowski, James D. Bittner, Frank J. Hrach Separation Technologies, USA
6:00 pm - 6:20 pm	Composite material with calcium sulfate and calcium phosphate for heavy metals retention Mr. Patrick Sharrock Université de Toulouse, Mines Albi, France		



THEMATIC SESSIONS FRIDAY MAY 10TH

	Thematic session 10: Agronomy and fertilization	Thematic session 11: Industrial Management	Thematic session 12: Materials & corrosion
	Room Safran Chairperson Terry ROBERTS, President IPNI – USA Co-Chairperson Abderahim NASSIR, Agronome en chef – Pôle commercial, OCP SA	Room Argan Chairperson M. Jamal CHAOUKI, Professeur Ecole Polytechnique Montral - Canada Co-Chairperson M. Philippe RICOUX, Directeur IT, Modeling and Numerical Processing, Scientific division Total, France	Room Romarin Chairperson M. Antoine POURBAIX, Directeur CEBELCOR, Belgique Co-Chairperson M. Rachid BOULIF, Maitre de Recherche Principal, OCP SA
10:30 am - 10:45 am	Responsiveness of different potato varieties (Solanum tuberosum) to phosphorus application Mr. Khalid DAOUI, A. Benbouaza, and E.H. Achbani, Institut National de la Recherche Agronomique, Maroc	On-Line XRF Analysis of Phosphate Materials at Various Stages of Processing Miss. Jelena Hasikova, BALTIC SCIENTIFIC INSTRUMENTS, Latvia	Corrosion et abrasion dans l'industrie des phosphates: problèmes et solutions Ms. Nawal Semlal, R.Boulif, A. Kossir, OCP SA, Maroc
10:45 am - 11:00 am	Etude du mélange phosphogypse/ phosphate naturel pour application en agriculture Mrs. Khadija Saja, M.Ouammou, J. C. Benezet, A. EL Kanit, E. Le-Cadre Barthelemy, P.Hinsinger, Université HASSAN II a Casablanca, Maroc	Potentiels de développement et d'usage des SNCC dans les Unités de Fabrication d'Acide Phosphorique et des Fertilisants Expérience de Jorf Lasfar, OCP Mr.Mounisf Ehlali & El Asri Said, OCP SA, Maroc	Mersen heat exchangers: Innovations that guarantee reliability, lifespan and energy efficiency Mr. Laurent Trablay, Mersen Chemical equipment Activity, France
11:00 am - 11:15 am	4R Nutrient Stewardship for Improved Nutrient Use Efficiency Mr. Adrian Johnston, International Plant Nutrition Institute, IPNI, Canada	Gestion et prévention des risques. Mr. Thierry VerdeL, Ecole des Mines - Université de Lorraine, France	Use of Stainless Steels in the Industry: Recent and Future Developments Mrs. Pauline Boillot, Jérôme Peultier, Industeel, ArcelorMittal Global R&D, France
11:15 am - 11:30 am	Nutritive solutions : Innovative fertilizers to help growers meet global food challenge Mrs. Valerie Renard, PRAYON, Belgique	Optimizing Value Extraction from Turnarounds Mr. Nicolas Lepeu, DuPont Sustainable Solutions - France	
11:30 am - 11:45 am	Deficiency and management options for phosphorus in maize production in East and southern Africa Mr. Shamie Zingore, Boaz Waswa, International Plant Nutrition Institute, Kenya	ThyssenKrupp Plant technologies & services for Phosphate ore processing Mr. Luc Rudowski, ThyssenKrupp Resource Technologies, France	Metallic Evaporator in Sanicr28 for 54% Phosphoric Acid Mr. EL KAYAR Khaled, Mr. Perrot Vincent, Sandvik Materials Technology, E.A.U & ACM Company, France
11:45 am - 12:00 pm	Teractiv Cacao as a new fertilizer based reactive phosphate rock for cocoa productivity in Côte d'Ivoire: A participatory approach to update fertilization recommendation Mr. Louis. K Koko, CNRA, Côte d'Ivoire	Project Management Procedures Needed to Design the Newest Four Phosphoric Acid Evaporators in North America Mr. Richard D. Harrison, Pegasus TSI, USA	
12:00 pm - 12:15 pm	Improvement of soil fertility and crop production through direct application of rock phosphate on maize in Indonesia Mrs. Husrain Husrain, Nuryani, Sri Rochayati, A. Nassir, ISRI, Indonesian Soil Research Institute, Indonesia	Phosphate Processing Using the Latest Sensor based Sorting Technology Mr Michele Bergmann, Presented by Markus Dehler, Tomra Sorting GmbH, Germany	Experience with two high-alloyed super austenitic stainless steels in the phosphoric acid industry – Alloy 31 and Alloy 31 Plus Nicholas Houille, Helena Alves, Outokumpu VDM GmbH, Germany
12:15 pm - 12:30 pm	Efficacy of two Moroccan Sulphur-enriched fertilizers on tea and some important staple crops in smallholder farming in Kenya Mr. Esther .W Gikonyo, Cisse, L. Kamau, D.N. Mangale N, Mumbua A. and Kibunja, C, Kenya agricultural research institute, Kenya		Experience with MICROFER 3127 HMO – ALLOY 31 (UNS8031) Abdelhak MOUSTAQSSA, OCP SA, Maroc

THEMATIC SESSIONS

FRIDAY MAY 10TH

	Thematic session 13: Fertilizer Manufacture	Thematic session 14: Energy and water	Thematic session 15: Phosphate based materials
	Room Argan Chairperson M. EL OUAFI, Directeur Site Jorf Lasfar, OCP SA Co-Chairperson M. David IVELL, Director of Process Technology, JESA, USA	Room Romarin Chairperson M. Tijani BOUNAHMIDI, Professeur EMI, Maroc Co-Chairperson M. Abdeljalil BOURRAS, Project manager for desalination, OCP SA	Room Draa & Lounge Art Chairperson Mr. Gilles LEFLEM, Directeur de Recherche CNRS - France Co-Chairperson M. Rachid HAKKOU, Ph. D. Professeur, Université Cadi Ayyad, Maroc
4:00 pm - 4:20 pm	Indirect Plate Heat Exchangers offer long term operating performance Mr. Neville Jordison, Jean Marc Reichling Solex Thermal Science, Canada	Optimizing Energy Efficiency: An Imperative for Improved Business Performance Mr. Chris Smith DuPont Sustainable Solutions - USA	Effects of temperature and clay content on microstructure and ceramic properties of phosphate sludge-clay blends Mr. Mohamed Loutou, M.Hajjaji, M.Mansori, R.Hakkou, C. Favotto, M.Benzaazoua, N.Semlal, K.Morsli FSSM, Université Cadi Ayyad, Maroc
4:20 pm - 4:40 pm	Dynamic Operator Training Simulators for Sulphuric Acid, Phosphoric Acid, and DAP Production Units Sergio Joao, Coral Siminovich SNC-Lavalin, Canada	Uranium, the hidden treasure in phosphates Mr. Ewald Schnug, Mr.Nils Haneklaus Technical University Braunschweig, Germany	Comprehension of the phenomena involved in the recovery of uranium from phosphate by D2EHPA/TOPO system and development of new cationic extractants. Mr. Denis Beltrami, A. Chagnes, H. Mokhtari, B. Courtaud, G.Cote. ENSCP, France
4:40 pm - 5:00 pm	Scale-up and On-Line Monitoring of Gas-Solid Systems Using Advanced and Non-invasive Measurement Techniques Mr. Aldahhan Muthanna University of Science & Technology, Rolla, USA	The recovery of Uranium from Phosphoric Acid, the Third Time Around Mr. Astley Vaughn, Regis Stana Dr Phosphate, USA	Phosphate glasses as a new energy density dielectric materials Mr. Lahcen Bih, M. Azrou, A. El Bouari, M. Amalhay, H. Mossadik, B. Belhorma, M.P.F. Graça, M.A. Valente FST-Errachidia, Maroc
5:00 pm - 5:20 pm	The Evolution of Screening Systems for Optimum Granular fertilizer Product Quality Mr. David Ivell, Van T. Nguyen Jacobs engineering, USA	Novel Technique for Fert Phosphoric Acid Purification with Simultaneous Recovery of Uranium Mr. Rohit Sanghani Kamorphos, India	Phosphate Glass Optical Fibers for Electro-optical Applications Mr. M. Rioux, Ledemi, Y.; Viens, J.F.; Gravel, J.F., Lessard, F.; Messaddeq, Y. Laval University, Canada
5:20 pm - 5:40 pm	Solar to Ammonia - via Proton's Nfuel units Mr. Lucas Laumans, Anish Patil, Hans Vrijenhoef Proton venture, The Netherlands	Comprehension of synergistic mechanisms for uranium extraction from phosphate ores Mrs. Olivia Pecheur, D.Guillaumont, S.Dourdain, F.Testard, H.Mokhtari CEA, France	Electro-chemical phosphate sensor Mr. C.O Normandeau; Viens, J.F.; Messaddeq. Laval University, Canada
5:40 pm - 6:00 pm	A Thermodynamic Model for the NH_4^+ , K^+ // H_2PO_4^- , $\text{H}_2\text{P}_2\text{O}_7^{2-}$, NO_3^- , Cl^- - H_2O System Mr. Patrice Chartrand, Frédéric Gemme and Christian Robelin CRCT, Ecole Polytechnique, Canada	Utilisation du procédé membranaire pour la purification d'acide phosphorique Mrs. Khaoula Khaless, Abdelali Kossir OCP SA, Maroc	High Density Phosphate Olivine for Lithium Batteries M.Ilias Belharouak Argonne National Laboratory, USA
6:00 pm - 6:20 pm	DAP from low grade phosphate, an economically viable process Frédéric Sauvage & Svet Valkov SNC-Lavalin, Belgium	Economie d'Energie dans un Complexe d'Acide Phosphorique Mr. Abdelkader Bourass Freelance, Maroc	



CONFERENCES

DAY : Tuesday May 7th
LOCATION : ROOM ROYALE

9:00 am - 9:45 am	CONFERENCE 1 : INNOVATE - YES YOU CAN Pr. Jamal Chaouki, Principal Chair Holder NSERC - Total Group Director of Biofineray Center Chemical Eng. Dept Ecole Polytechnique de Montréal
9:45 am - 10:45 am	CONFERENCE 2 «INNOVATION» : IMPLEMENTATION OF INNOVATION MANAGEMENT - LESSONS LEARNED Huub Rutten, VP Research and Application Development, Co-Founder, Sopheon
10:45 am - 11:00 am	COFFEE BREAK
11:00 am - 12:30 am	CONFERENCE 3 «ELSEVIER» : HOW TO GET PUBLISHED IN A RESEARCH JOURNAL Dean Eastbury, Executive Publisher Chemical Engineering: Minerals & Separation - Elsevier, Oxford, UK «
1:00 pm - 3:00 pm	LUNCH
3:00 pm - 3:45 pm	CONFERENCE 4: THE AUDACITY TO INNOVATION Lotfi El-Ghandouri, CEO Creative Society Group
3:45 pm - 4:30 pm	CONFERENCE 5: LA CONFIANCE: UN FONDEMENT DE L'INNOVATION Youssef Gaboune, Associate Director MENA, Oxford Leadership Academy Founder, Ethical Leaders™ & How Humans Work™

SYMPHOS TV

DAY	WEDNESDAY MAY 8 TH
TIME	8.00pm -9.00pm
TOPIC	INNOVATION
PANEL	MR FRANÇOIS GUINOT , Honorary President - Académie Française des Technologies
	MR HUUB RUTTEN , VP Research and Application Development, Co-Founder - Sopheon
	MR SILVA MARCO ORELLANA , Chief Information Officer Cdt - Codelco



WORKSHOPS

WEDNESDAY, MAY 8TH

	Workshop 1: Innovation in Mining Industry	Workshop 2: Phosphogypse management
	Room ATLANTIQUE Chairperson M. Mohamed SMANI, Directeur R&D Maroc Secretary M. Abdellah MAHSOUNE, Responsable Axe Merah-Beni Idir, OCP SA M. Moulay ZEMMARI, Chef projet DCP/MCP OCP	Room ATLAS Chairperson M. Nadim FULEIHAN, President Ardaman Associates USA Secretary M. Ahmed fouda BAHBOUHI, Directeur HSE OCP M. Abdelhak KABBABI, Responsable Environnement OCP
4:00 pm - 4:20 pm	Failure has to be acceptable, Mr. Jamal Chaouki, EPM - Montréal, Canada	The Phosphogypsum Dilemma : Closure Vs beneficial Use Mr. Nadim Fuleihan, Ashraf H.Riad ARDAMAN & Associates, Inc., a Tetra Tech Company, USA
4:20 pm - 4:40 pm	Le processus d'innovation : son articulation et son pilotage. M. Antoine Dubedout. Mines Nancy France	Potentially Heavy Metals Contamination in Tomato and Green pepper Plants Grown in Soils Amended with Phosphogypsum in Jordan. Mr Mohammad Al-Hwaiti, Omar Khashmana. All-Hussein Bin Tala University, Jordan
4:40 pm - 5:00 pm	Integratged Innovation Performance [the overall Sopheon value proposition] M. Michel Delifer. SOPHEON, USA	Beneficiation of Phosphogypsum within sulfur concrete: valorization potential and reuse horizons. M. Mohamed Choura, M. Mohamed Gouider. Sfax University, Tunisia
5:00 pm - 5:50 pm	Debates	Debates
5:50 pm - 6:20 pm	Recommendations and conclusion	Recommendations and conclusion



WORKSHOPS

THURSDAY, MAY 9TH

	Workshop 3: Sustainable Mine	Workshop 4: Smart Mine & Automation
	Room ATLANTIQUE Chairperson M. Abdelkader ALOUANI, Directeur Support Khouribga, OCP Secretary M. Youssef DAAFI, Ingénieur R&D, OCP Mme Meriem EL MEHDI, Responsable Méthodes, Planning et Performance, OCP	Room ATLAS Chairperson Mr. Orellana Silva Marco, Chief Information Officer Cdt& Chief Information Security Officer, CODELCO, Chile Secretary M. Hicham KABBAJ, Testing & Innovation Director, OCP M. Mansour ASRI, Maitre de Recherche, OCP
10:30 am - 10:50 am	L'émergence de l'après mine en France, retour d'expérience pour une mine durable Mr. Jean-Luc Foucher BRGM, France	Optimum Fleet Recommendation Komtrax plus Mr. Nicola Roussau KOMATSU France
10:50 am - 11:10 am	La mine durable, rôle de la modélisation numérique dans l'aide à la décision – Exemples de cas industriels Mr. Ahmed Hosni Geoderis, France	Case studies of the success and remaining challenges of automation. Dr. Sean D. Dessureault The University of Arizona Tucson, USA
11:10 am - 11:30 am	Rôle de l'expertise minière Mr. Christophe Didier INERIS, France	Operational excellence in the management of industrial processes Jean Luc Tworek Rockwell, France / USA
11:30 am - 12:20 pm	Debates	Debates
12:20 pm - 12:30 pm	Recommendations and conclusion	Recommendations and conclusion



WORKSHOPS

THURSDAY, MAY 9TH

	Workshop 5: Desalination	Workshop 6: Phosphoric acid process manufacture
	Room ATLANTIQUE Chairperson M. Azeddine EL MIDAoui, Doyen FS Kénitra - Maroc Secretary M. Abdeljalil BOURRAS, Chef de projet Dessalement OCP, SA Mme Khaoula KHALESS, Chargé de recherches OCP	Room ATLAS Chairperson M. Abdelali KOSSIR, Directeur R&D – OCP SA Secretary M. Mohammed BELGHITI, Chef de projet ACP, OCP M. Ahmed MAHROU, Responsable Phosphorique, OCP
4:00 pm - 4:20 pm	SCALE2000 – Logiciel de modélisation des processus thermocinétiques de formation de l'encrassement dans les unités de dessalement M. Mohamed Azaroual BRGM, France	Phosphoric Acid Production Processes Developed by Prayon Mr. Collin, Benoît Van Massenhove PRAYON S.A, Belgique
4:20 pm - 4:40 pm	New Tendencies in Reverse Osmosis plants Mr. Antonio Casañas DOW, Spain	Isothermal Phosphoric Acid Process Richard D Harrison PegasustSI, USA
4:40 pm - 5:00 pm	TORAY Membrane Product Presentation Haci Özgencil, TORAY, Turquie	Optimal Recirculation Rates in Phosphoric Acid Production James Byrd Jacobs Engineering SA, USA
5:00 pm - 5:20 pm	Innovations in the inhibition and cleaning of reverse osmosis membrane scaling and fouling Stephen P. Chesters Presented by: Mr Stephane Jarrige Genesys International Ltd., United Kingdom	
5:20 pm - 6:00 pm	Debates	Debates
6:00 pm - 6:20 pm	Recommendations and conclusion	Recommendations and conclusion



WORKSHOPS

FRIDAY, MAY 10TH

	Workshop 7: Fluoride valorisation	Workshop 8: Phosphoric acid filtration technologies
	Room ATLANTIC Chairperson Mr. Fabrice RENARD, Chief Innovation Officer, Prayon BELGIUM Secretary Mr. Fayçal BENAMEUR, Director Market Research & Communication, OCP SA Mr. Lhousaine OMARI, Chargé de recherches OCP	Room ATLAS Chairperson Mr Marten WALTERS, Kemworks, USA Secretary M. Mohammed BELGHITI, Chef de Projet OCP SA Mr. Hamid MAZOUZ, Chargé de recherche OCP SA
10:30 am - 10:50 am	Fluoride and Silica products from Pond Water and FSA Mr. Astley Vaughn Dr Phosphate, USA	Technologie de filtration de profile (filter basculant et TDI) Mr. Erik Desmet, Profile, Belgique
10:50 am - 11:10 am	Economic aspects of utilizing fluosilicic acid as raw material for the manufacture of hydrofluoric acid and aluminium fluoride Mr. Alain Drevetton AD Process Strategies Sarl, Switzerland	Phosphoric Acid Filtration Gabriel Ghiringhelli, FLSmidth Milano Srl, Italy
11:10 am - 11:30 am	FSA Neutralization with Calcium Compounds Mr. Salah Albustami, Stephen W. Hilakosa Jacobs engineering, USA	Aoustin™ Table Filter, the Logical solution for Filtration of Phosphoric acid Mr Florent Bouquet RPA PROCESS, France
11:30 am - 12:20 pm	Debates	Debates
12:20 pm - 12:30 pm	Recommendations and conclusion	Recommendations and conclusion



WORKSHOPS

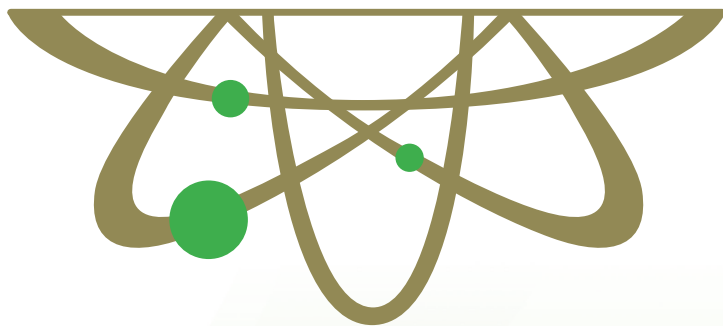
FRIDAY, MAY 10TH

	Workshop 9: Flotation	Workshop 10: Fouling in phosphoric acid
	Room ATLANTIC Chairperson M. Daniel TAO, Professor, University of Kentucky, USA Secretary M. Ahmed ZNIBAR, Chef de Projet OCP SA M. Chakour MOUNTASSIR, Maitre de recherche OCP SA	Room ATLAS Chairperson M. EL BAHRAOUI, Directeur Général KIMIA, Maroc Secretary M. Said EL ASRI, Chef de Projet OCP SA M. Kacem ABDOUSS, Maitre de recherche OCP SA
4:00 pm - 4:20 pm	Nouveau mécanisme de flottation – Float Force MM. Luis Rudolphy and A. Khamsine OUTOTEC, Germany	Modélisation et compréhension des problèmes d'encrassement lors de la fabrication d'acide phosphorique. MM. AMALHAY, KHAMAR, AZAROUAL OCP SA - BRGM, Maroc/France
4:20 pm - 4:40 pm	Process and Flotation Cell Design Considerations For Phosphate Applications MM. Asa Weber and JC SERBON FLSMIDTH, USA/France	Amélioration de la performance de la concentration d'acide phosphorique par la réduction du phénomène d'encrassement Mr. Hamid MAZOUZ OCP SA, Maroc
4:40 pm - 5:00 pm		Scale controlling chemical additives for phosphoric acid production plants Mr. John CARR Cytec Industries, Inc., USA
5:00 pm - 5:20 pm		Utilisation de la technique des radiotraceurs pour l'évaluation et la localisation des problèmes d'encrassement dans les unités de fabrication d'acide phosphorique. MM. OMARI & ALAMI OCP / CNESTEN, Maroc
5:20 pm - 6:00 pm	Debates	Debates
6:00 pm - 6:20 pm	Recommendations and conclusion	Recommendations and conclusion





PLENARY SESSIONS





LA FABRIQUE DE L'INNOVATION**BIOGRAPHY**

Né à la Chaux-de-Fonds, Elmar Mock est un ingénieur horloger suisse. Il a été avec Jacques Müller le co-inventeur de la montre Swatch, sous la direction de Ernst Thomke à ETA Manufacture Horlogère à la fin des années 1970. Toujours attiré par la «matière», Elmar Mock continue de transformer les «idées en quelque chose» et fonde en 1986 à Bienne sa propre société d'ingénierie et de consultations techniques appelée «Creaholic», il s'adonne avec ses collaborateurs aux délices de la création industrielle. Tous azimuts (technologie médicale, produits cosmétiques et de grande consommation. En 2009 il a été reconnu par le «forum des 100» comme l'une des personnalités qui font la Suisse romande».



SILVA MARCO ORELLANA

PL 2

INNOVATION AND TECHNOLOGY, ENGINES FOR THE FUTURE OF MINING: DIGITAL CODELCO'S CASE



BIOGRAPHY

Marco Orellana Silva, was born in 1958 and actually lives in Machali / Rancagua, to 80 km. from Santiago in Chile. He attended Universidad de Chile where he graduated in Information Processing Engineering, next he then studied at Universidad de Santiago where he obtained a diploma in Information Management. He is married and he has 3 children's.

Marco starts at Codelco in 1980 like Information Technology Chief at El Teniente Health Foundation. In 1986 he moved to Chuquicamata Division, where he got to be Information Technology Chief of its Division. In 1996 he moves to the Corporate Head Quarters, in Santiago, where he was to leader of the incorporation of SAP in Codelco.

Year 2003 assumes like as Corporative CIO, responsible management in Codelco to generate value through use of the Information Technology & Telecommunications, in where its main task has focused to create a vision for the mining business from the IT optical (DIGITAL CODELCO), in 2007 **Marco** increase responsibilities to automation in Mining and Process context (CIO + A).

As it leaves from its activities it leads the SAP User Group in Chile (organization that groups of the order of 180 companies) and has actively participated in the conformation of the CIO&A Group of Managers of the Mining of Coper, additionally maintains permanent meetings with the group of CIOs of large companies from different industries in Chile an LA, in the same way it has maintained permanent contact with the world-wide ITC&A industry showing and disclosing Digital Codelco strategy.

In 2012, he assumes the responsibility for Security Office in CODELCO (CSO) in addition to the CIO role.

In 2010 **Marco**, participate like speaker in seven version of MIT / CIO Summit in Boston USA, leader the fifth version of Summit on IT and Mining in North - Chile, and IT conference in Peru.

In 2011 win the MIT CIO Award for Innovation and in 2013 win the Computerworld 100 IT Leaders.

LESSONS IN SUSTAINABILITY FROM THE MINING INDUSTRY**BIOGRAPHY**

Professor Batterham is acknowledged as an expert in innovation and gives regular keynote talks on the topic. He is Kernot Professor of Engineering at the University of Melbourne and also President of the Australian Academy of Technological Sciences and Engineering. Until recently he was Group Chief Scientist, Rio Tinto Limited and Chairman of the International Energy Agency Expert Group on Science for Energy.

He has had a distinguished career in research and technology, in the public and private sectors in areas such as mining, mineral processing, mineral agglomeration processes, and iron making. He is inventor on over 20 patent families.

Professor Robin Batterham was Chief Scientist to the Australian Federal Government from 1999 to 2005.

He has been President of the Institution of Chemical Engineers and the International Network for Acid Prevention and is President of the International Mineral Processing Congress as well as chairing the Australia India Collaborative Research Fund.

He is an elected Fellow (or Foreign Fellow) of the Royal Academy of Engineering, the National Academy of Engineering, the Swiss Academy of Technological Sciences, the Australian Academy of Science, the Australian Academy of Technological Sciences and Engineering as well as Fellow of several learned societies.

**A FORWARD LOOK INTO RARE EARTH SUPPLY AND DEMAND:
A ROLE FOR SEDIMENTARY PHOSPHATE DEPOSITS?**



BIOGRAPHY

Patrice Christmann is a geologist, specialized in economic geology. He owns a Ph.D. in geosciences obtained in 1979 from the University of Grenoble (France) and a master level degree from the Ecole Supérieure de Commerce de Paris, obtained in 1993. During his studies, he worked as a junior geologist with the Ministry for natural resources of Québec (Canada), and did his field work on the Copper Cliff Cu-Au deposit, near Chibougamau in preparation of his Ph.D. He entered BRGM in 1977, and worked eight years in geological mapping and mineral exploration in Iran and Yemen. In its International Directorate, which he joined in 1985, he managed project development in several world regions. From 1997 to 2000 he worked three years as a seconded national expert with the European Commission (DG Development), in Brussels, in the mineral resources domain. He returned to Brussels a second time from 2004 to 2009, as the Secretary-General of EuroGeoSurveys, the Association of 33 European geological surveys. He then returned to BRGM to become the head of its Mineral Resources department.

Since September 2010, he is deputy director of BRGM's corporate strategy directorate, in charge of BRGM's mineral resources strategy. In this position he coordinates BRGM's contribution to the French committee on strategic metals and to the European Commission's raw materials initiative. Since June 2010, he is a member of the UNEP International Resources Panel (www.unep.org/resourcespanel).

He is a member of the High-Level Group that steers the European Innovation Partnership on Raw Materials.

His areas of interest are public policies related to the sustainable management of natural resources and mineral raw materials economics.

**RAPID GROWTH AND EVOLUTION OF THE GLOBAL CHEMICAL INDUSTRY,
IMPACTS ON THE PHOSPHATE INDUSTRY**



BIOGRAPHY

David T. Fung, B.Eng., M. Eng., Ph.D. (McGill), P. Eng. (BC), A.C.C., H.R.C.C.C.

- Chairman and CEO of ACDEG Group with business partnerships in Asia, North America and Europe.
- Strategic Advisor, Cycle Capital Management Inc. of Montreal, Canada
- Co-chair, Members of Canada Foundation for Innovation
- Incoming chair, Chemical Institute of Canada
- Incoming vice-chair, national board of directors of CSA Group
- Past chair, national board of directors of Canadian Manufacturers & Exporters, the largest industry association in Canada

Past president, Canadian Society for Chemical Engineering

A NEW FOOD EQUATION**BIOGRAPHY**

Mohamed AIT KADI is presently President of the General Council of Agricultural Development, a high level policy Think Tank of the Ministry of Agriculture and Fisheries in Morocco. He was the Chief- agricultural negotiator of the free trade agreement between Morocco and the United States. AIT KADI chairs the Technical Committee of the Global Water Partnership. He was Governor and founding member of the World Water Council and President of the organizing committee of the first World Water Forum held in Marrakech in 1997. He is honorary vice-president of the International Commission on Irrigation and Drainage (ICID) and Vice-president of its Moroccan National Committee (ANAFIDE).

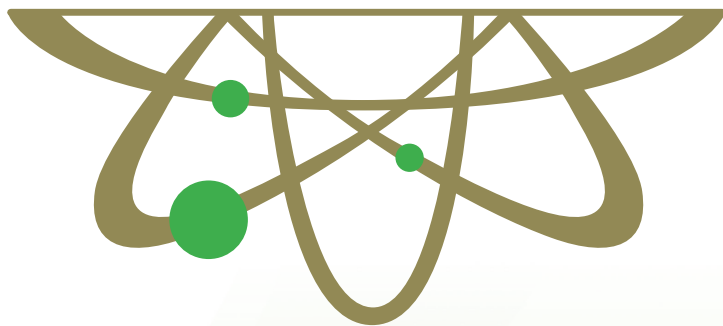
He is a member of Hassan II Academy of Sciences and Technology. He serves in the Board of Advisors of the World Agricultural Forum. He is Professor at the Institute of Agronomy and Veterinary Medicine Hassan II, Rabat. He is author of numerous publications in the fields of irrigation, water management and agriculture and rural development.







KEYNOTE SPEAKERS





DANIEL GAGNON

KN 1

MINING OF PHOSPHATE: REVIEW OF MINING METHODS AND EQUIPMENT USED IN PHOSPHATE MINES AROUND THE WORLD



BIOGRAPHY

Mr. Gagnon is a senior mining engineer with over 15 years of management, operations and technical experience in the mining industry. His extensive expertise includes a significant number of feasibility studies, mine planning projects and technical assistance to operations, in a variety of commodities, including gold, base metals, iron ore, coal and industrial minerals. He is currently leading the Mining Group overseeing geology, mining engineering and environment projects. In addition to coaching the mining department and reviewing the technical work produced for various clients. Mr. Gagnon also participates as project manager and senior mining roles in a number of projects. Before assuming his current position, he served as Business Development Manager at Met-Chem. He holds a bachelor's degree in Mining Engineering from the École Polytechnique de Montréal in Quebec and a current member of the "Ordre des ingénieurs du Québec".

COMPREHENSIVE RECOVERY AND SUSTAINABLE DEVELOPMENT OF PHOSPHATE RESOURCE**BIOGRAPHY**

Dr. Zhang received his Ph.D degree in metallurgical engineering from University of Nevada, Reno, USA; M.S. degree from the Institute of Process Engineering, Chinese Academy of Science; and B.S. degree from Northeastern University. He has been the Beneficiation & Mining Research Director with the Florida Industrial and Phosphate Research Institute since 1993. During this period, he conducted 8 in-house research projects, managed 61 research contracts, chaired 7 international conferences on phosphate beneficiation, edited 6 books on phosphate processing, authored numerous technical papers and book chapters, and delivered many keynote/plenary speeches at various conferences.



JAMES WEIGAND

KN 3

BUILDING A BUSINESS CASE FOR SUSTAINABILITY



BIOGRAPHY

James R. Weigand is president, DuPont Sustainable Solutions. In his role, Mr. Weigand leads a global solutions business specializing in transforming workplaces and work cultures with services and technologies that bring about sustained improvements in safety, operational and environmental performance. Mr. Weigand began work with DuPont in 1981 in Wilmington, Del., in the finance organization, with assignments in the areas of federal and international taxes, business analysis, and mergers and acquisitions.

In 1987, Mr. Weigand joined DuPont Performance Coatings and held several leadership positions including European sales and marketing director and global business director for Ford, responsible for delivering coatings solutions to Ford worldwide.

Mr. Weigand was appointed director, DuPont corporate planning in 1999 where he guided corporate strategic direction and positioned the DuPont portfolio of businesses. In 2001, he was appointed regional sales and marketing director for Engineering Polymers, helping to achieve near double-digit growth in the Americas.

In 2003, Mr. Weigand was named global business director for Advanced Fibers Systems, where he had global business leadership responsibilities for products under the Kevlar® and Nomex® brands sold into a variety of markets including military, government, automotive, aerospace and oil and gas. In September 2007 he was named vice president and general manager of DuPont Safety Resources. In October 2009, he was appointed president of DuPont Safety Resources, which is now part of DuPont Sustainable Solutions, an integrated business that also includes segments of DuPont Clean Technologies and Coastal Training Technologies.

NUMERICAL SIMULATION AND HIGH PERFORMANCE COMPUTING IN SOME INDUSTRIAL APPLICATIONS - EXAMPLES IN OIL AND GAS INDUSTRY**BIOGRAPHY**

Dr Philippe Ricoux is at the Scientific Division of TOTAL group, thematic responsible of Numerical Processing and Modeling: animation and development of transverse technologies such as Applied Mathematics, Dynamic Modeling, Multi Fluids Flow & CFD, High Performance Computing, Advanced control, signal and Image processing, Mathematics and signal processing engineer (SUPELEC), then chemical engineering engineer (ENSIC) and PhD on optimal control of catalytic chemical reactors, expert for US DOE and EU R&D.

His carrier is mainly in scientific research although he also spent several years in oil & gas producer countries. He created and managed during 8 years his own company dedicated to numerical simulation. He is at European HPC Scientific Case chair of the Exascale industrial applications roadmap, and the coordinator of the European Exascale Software Initiative.

PROCESSUS INNOVATION, SON ARTICULATION ET SON PILOTAGE**BIOGRAPHY**

Antoine Dubedout started his career in 1977 as a project engineer with the French petroleum company Total. In 1981, as the manager for system integration, he took part in the development of the Vulcain engine within Snecma. In 1988, he joined the Hutchinson Group as manager for product development in the Research Centre, and later as logistics manager in one of the Group's factories. In 1993, he joined Electrolux in a series of senior management positions in R&D, primarily in Denmark and Sweden. In 2002, he became R&D Director for powered two-wheelers at Peugeot, and in 2005 took over responsibility for the Quality for power-train programs at Peugeot Citroën Automobiles. After founding his own company offering consultancy services in R & D organization and management, he joined Mines Nancy in 2008, setting up the chair "Engineering and innovation".



ILIAS BELHAROUAK

KN 6

ENERGY STORAGE OPPORTUNITIES IN MOROCCO



BIOGRAPHY

Dr. Ilias Belharouak is a materials scientist and battery expert in the Chemical Sciences and Engineering Division at Argonne National Laboratory, Illinois USA. He has extensive experience working with multiple branches of the U.S. government in applying lithium-ion battery research for projects ranging from plug-in hybrid electric vehicles to medical and military applications. Dr. Belharouak was recognized with several awards including R&D-100 awards, federal and state laboratory consortium awards, and was the recipient of “congratulations” letters from top U.S. government executives. He published over 200 publications, books, and patents. Dr. Belharouak holds Ph.D. and Master’s Degrees in materials science from the Institute for Solid State Chemistry, Bordeaux, France.



IBNABDELJALIL MHAMED

KN 7

PERFORMANCE PHOSPHATE PRODUCTS BRAND REVEAL



BIOGRAPHY

Prior to joining the OCP Group at the end of 2006, Dr Ibnabdeljalil worked as a consultant and entrepreneur in San Francisco. He advised top executives from various companies in formulating and implementing their business strategies and product and customer engagements. His advisory work spanned several industries, including semiconductors, consumer electronics, e-commerce and medical devices with companies located in Texas, California and Canada. During that same period, Dr Ibnabdeljalil cofounded and incubated a fabless semiconductor company which developed a proprietary Micro-Electro-Mechanical System (MEMS) based sensor and actuator technology. Prior to that, he held several positions at Texas Instruments ranging from engineering management to strategic Marketing.

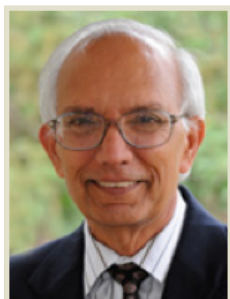
Dr Ibnabdeljalil holds a PhD in Theoretical & Applied Mechanics from Cornell University, a MS in Aeronautical Engineering from the University of London (Imperial College) and a BS from Queen Mary College.

FROM MINE TO SPECIALTY ADVANCED MATERIALS, FUTURE CHALLENGES AND POTENTIAL INNOVATIONS FOR THE PHOSPHATE INDUSTRY**BIOGRAPHY**

Fabrice Renard studied Chemical Engineering and Business Administration at the University of Liège. He joined Prayon in 1991. After different positions in Belgium and Morocco as process engineer, financial controller, plant manager, marketing manager, he started six years ago the development of a global innovation process for the Company.

As Chief Innovation Officer, he is in charge of Innovation, Research & Development and IP for the group Prayon.

In 2013, Prayon's innovation strategy is focusing on nutrition, water treatment, advanced energy materials and horticulture.

FOOD SECURITY AND SOIL FERTILITY RESTORATION IN AFRICA**BIOGRAPHY**

Rattan Lal, Ph.D., is Distinguished University Professor of Soil Science in the School of Environment and Natural Resources and Director of the Carbon Management and Sequestration Center at The Ohio State University. He has been an adjunct professor at the University of Iceland since 2009.

He earned his B.S. from Punjab Agricultural University, an M.S. from Indian Agricultural Research Institute, and a Ph.D. from The Ohio State University. Prior to joining the International Institute of Tropical Agriculture (IITA) as a soil physicist in 1969, he worked with the University of Sydney, Australia, as a Senior Research Fellow. From 1969 to 1987 at the IITA, Ibadan, Nigeria, Professor Lal conducted long-term experiments on watershed management, water budget in relation to land use and land use change, erosion control, water conservation in the root zone, no-till farming, and agroforestry.

Professor Lal is a fellow of the American Society of Agronomy (ASA), Soil Science Society of America (SSSA), Third World Academy of Sciences, American Association for the Advancement of Sciences (AAAS), Soil and Water Conservation Society (SWCS), and Indian Academy of Agricultural Sciences. He received several awards from the SSSA, the ASA, and the SWCS. In 2005, Professor Lal received the Borlaug Award and Liebig Award of the International Union of Soil Science, and in 2009, he received the M.S. Swaminathan Award (India) and COMLAND Award (Germany). He has received honorary degrees from Punjab Agricultural University, India (2001), the Norwegian University of Life Sciences, Aas, Norway (2005), and Alecu Russo Balti State University, Republic of Moldova (2010).



TERRY ROBERTS

KN 10

CADMIUM AND PHOSPHOROUS FERTILIZERS: THE ISSUES AND THE SCIENCE



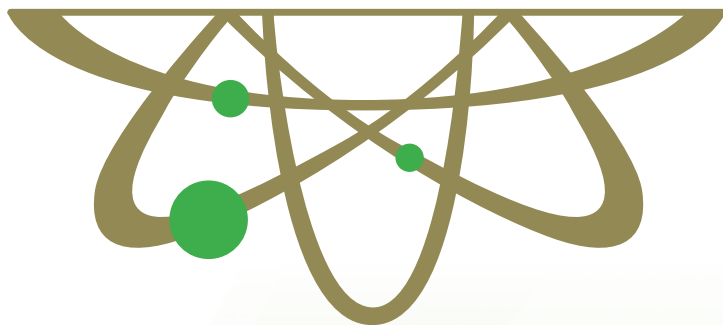
BIOGRAPHY

Terry L. Roberts has been President of the International Plant Nutrition Institute (IPNI) since it was established in 2007. Prior to that, he was President of the Potash & Phosphate Institute (PPI). A native of Alberta, Canada, he received a B.S.A. in Crop Science (1981) and a Ph.D. in Soil Fertility and Plant Nutrition (1985) from the University of Saskatchewan. Dr. Roberts was a contract scientist with Agriculture and Agri-Food Canada before joining PPI in 1989 and was named a Fellow of the American Society of Agronomy in 2001.





WORKSHOPS





INNOVATION IN MINING INDUSTRY

Workshop 1

Date and Time	Wednesday, May 8 th – 4:00 pm – 6:20 pm
Room	ATLANTIQUE
Chairperson	Mohamed SMANI, Directeur R&D Maroc
Secretary	Abdellah MAHSOUNE, Responsable Axe Merah-Beni Idir, OCP SA Moulay ZEMMARI, Chef projet DCP/MCP OCP
Facilitators	Jamal Chaouki, EPM - Montréal, Canada M. Antoine Dubedout. Mines Nancy France M. Michel Delifer. SOPHEON, USA

Program :

- 4:00 pm - 4:20 pm** **Failure has to be acceptable**
Mr. Jamal Chaouki, EPM - Montréal, Canada
- 4:20 pm - 4:40 pm** **Le processus d'innovation : son articulation et son pilotage**
M. Antoine Dubedout. Mines Nancy France
- 4:40 pm - 5:00 pm** **Integrated Innovation Performance
(the overall Sopheon value proposition)**
M. Michel Delifer. SOPHEON, USA
- 5:00 pm – 6:00 pm** **Debates**
- 6:00 pm - 6:20 pm** **Recommendations and conclusions**



PHOSPHOGYPSE MANAGEMENT

Workshop 2

Date and Time	Wednesday, May 8th - 4:00pm - 6:20pm
Room	ATLAS
Chairperson	Nadim FULEIHAN, President Ardaman Associates USA
Secretary	Ahmed Fouad BAHBOUHI, Abdelhak KABBABI
Facilitators	Nadim Fuleihan, Mohammad Al-Hwaiti, Mohamed Choura.

Program :

- 4:00 pm - 4:20 pm** **The Phosphogypsum Dilemma : Closure Vs beneficial Use**
Mr. Nadim Fuleihan, Ashraf H.Riad ARDAMAN & Associates, Inc.,
a Tetra Tech Company, USA
- 4:20 pm - 4:40 pm** **Potentially Heavy Metals Contamination in Tomato and Green pepper Plants Grown in Soils Amended with Phosphogypsum in Jordan.**
Mr. Mohammad Al-Hwaiti, Omar Khashmana. All-Hussein Bin Tala University, Jordan
- 4:40 pm - 5:00 pm** **Beneficiation of Phosphogypsum within sulfur concrete: valorization potential and reuse horizons.**
M. Mohamed Choura, M. Mohamed Gouider. Sfax University, Tunisia,
- 5:00 pm - 6:00 pm** **Debates**
- 6:00 pm - 6:20 pm** **Recommendations and conclusions**



SUSTAINABLE MINE

Workshop 3

Date and Time	Thursday, May 9th - 10:30am - 12:30pm
Room	ATLANTIQUE
Chairperson	Abdelkader ALOUANI, Directeur logistique et projets d'amélioration, OCP SA
Secretary	Youssef DAAFI, Ingénieur R&D - OCP SA Meriem EL MEHDI, Responsable méthodes, planning et performances OCP SA
Facilitators	Jean-Luc Foucher, Ahmed Hosni, Christophe Didier.

Program :

- 10:30 am - 10:50 am** **Qu'est ce qui a motivé la mise en place d'un dispositif «après-mine» en France et en Europe?**
Mr. Jean-Luc Foucher, BRGM, France
- 10:50 am - 11:10 am** **Méthodologie d'identification des aléas, rôle de la modélisation dans l'appréciation des phénomènes**
Mr. Ahmed Hosni, Geoderis, France
- 11:10 am - 11:30 am** **Rôle de l'expertise minière**
Mr. Christophe Didier, INERIS, France
- 11:30 am - 12:10 pm** **Debates**
- 12:10 pm - 12:30 pm** **Recommendations and conclusions**



SMART MINE & AUTOMATION

Workshop 4

Date and Time	Thursday, May 9th - 10:30am - 12:30pm
Room	ATLAS
Chairperson	Orellana Silva Marco, Chief Information Officer Cdt& Chief Information Security Officer - CODELCO, Chile
Secretary	Hicham KABBAJ, Testing & Innovation Director - OCP Mansour ASRI, Head of Mining R&D department - OCP
Facilitators	Nicolas Rousseau, Sean D. Dessureault, M. Bachiri, Jean Luc Tworek.

Program :

10:30 am - 10:50 am	Optimum Fleet Recommendation Komtrax plus Mr. Nicolas Rousseau, KOMATSU France
10:50 am - 11:10 am	Case studies of the success and remaining challenges of automation Dr. Sean D. Dessureault, The University of Arizona Tucson, USA
11:10 am - 11:30 am	Lighting up GNSS Blackspots Thant to the Leica Jigsaw Positioning System C.R Keenan, Leica Geosystems Mining Division, Australia
11:30 am - 11:50 am	Operational excellence in the management of industrial processes Jean Luc Tworek, Rockwell, France / USA
11:50 am - 12:10 pm	Debates
12:10 pm - 12:30 pm	Recommendations and conclusions



DESALINATION

Workshop 5

Date and Time	Thursday, May 9th - 4:00pm - 6:20pm
Room	ATLANTIQUE
Chairperson	Azeddine EL MIDAOU, Doyen FS Kénitra
Secretary	Abdeljalil BOURRAS, Chef de projet Dessalement OCP, SA Khaoula KHALESS, Chargé de recherches OCP
Facilitators	Mohamed Azaroual, Antonio Casañas, Haci Özgencil, Stephen P.Chesters.

Program :

4:00 pm - 4:20 pm	SCALE2000 - Logiciel de modélisation des processus thermocinétiques de formation de l'encrassement dans les unités de dessalement M. Mohamed Azaroual, BRGM, France
4:20 pm - 4:40 pm	New Tendencies in Reverse Osmosis plants Mr. Antonio Casañas, DOW, Spain
4:40 pm - 5:00 pm	TORAY Membrane Product Presentation Haci Özgencil, TORAY, Turquie
5:00 pm - 5:20 pm	Innovations in the inhibition and cleaning of reverse osmosis membrane scaling and fouling Stephen P.Chesters Presented by: Mr. Stephane Jarrige Genesys International Ltd., United Kingdom
5:20 pm - 6:00 pm	Debates
6:00 pm - 6:20 pm	Recommendations and conclusions



PHOSPHORIC PROCESS MANUFACTURE

Workshop 6

Date and Time	Thursday, May 9th – 4:00pm – 6:20pm
Room	ATLAS
Chairperson	Abdelali KOSSIR, Directeur R&D – OCP SA
Secretary	Mohammed BELGHITI, Chef de projet ACP, OCP Ahmed MAHROU, Responsable Phosphorique, OCP
Facilitators	Collin, Benoît Van Massenhove, Richard D Harrison, James Byrd.

Program :

- 4:00 pm - 4:20 pm** **Procédés des fabrications d'acide phosphorique développés par PRAYON**
Mr. Collin, Benoît Van Massenhove
PRAYON S.A, Belgique
- 4:20 pm - 4:40 pm** **Isothermal Phosphoric Acid Process**
Richard D Harrison
PegasusTSI, USA
- 4:40 pm - 5:00 pm** **Optimal Recirculation Rates in Phosphoric Acid Production**
James Byrd
Jacobs Engineering SA, USA
- 5:00 pm - 6:00 pm** **Debates**
- 6:00 pm - 6:20 pm** **Recommendations and conclusions**



FLUORIDE VALORISATION

Workshop 7

Date and Time	Friday, May 10th - 10:30am - 12:00pm
Room	ATLANTIQUE
Chairperson	Fabrice RENARD, Chief Innovation Officer, Prayon BELGIUM
Secretary	Fayçal BENAMEUR, Director Market Research & Communication, OCP SA Lhousaine OMARI, Chargé de recherches OCP
Facilitators	Astley Vaughn, Alain Drevetton, Salah Albustami, Stephen W. Hilakosa.

Program :

10:30 am - 10:45 am	Fluoride and Silica products from Pond Water and FSA Mr. Astley Vaughn Dr Phosphate, USA
10:45 am - 11:00 am	Economic aspects of utilizing fluosilicic acid as raw material for the manufacture of hydrofluoric acid and aluminium fluoride Mr. Alain Drevetton AD Process Strategies Sarl, Switzerland
11:00 am - 11:15 am	FSA Neutralization with Calcium Compounds Mr. Salah Albustami, Stephen W. Hilakosa Jacobs engineering, USA
11:15 am - 11:45 pm	Debates
11:45 pm - 12:00 pm	Recommendations and conclusions



PHOSPHORIC ACID FILTRATION TECHNOLOGY

Workshop 8

Date and Time	Friday, May 10th - 10:30am - 12:00pm
Room	ATLAS
Chairperson	M. Marten WALTERS, KemWorks, USA
Secretary	Mohammed BELGHITI, Chef de Projet OCP SA MAZOUZ, Chargé de recherche OCP SA
Facilitators	Erik Desmet, Gabrielle Ghiringhelli, Florent Bouquet.

Program :

- 10:30 am - 10:45 am** **Technologie de filtration de profile (filter basculant et TDI)**
Mr. Erik Desmet, Profile, Belgique
- 10:45 am - 11:00 am** **Phosphoric Acid Filtration**
Mr. Gabrielle Ghiringhelli
FLSmidth Milano Srl, Italy
- 11:00 am - 11:15 am** **Aoustin™ Table Filter, the Logical solution for Filtration of Phosphoric acid**
Mr. Florent Bouquet
RPA PROCESS, France
- 11:15 am - 11:45 pm** **Debates**
- 11:45 pm - 12:00 pm** **Recommendations and conclusions**



FLOTATION

Workshop 9

Date and Time	Friday, May 10th – 4:00pm – 6:20pm
Room	Atlantique
Chairperson	Daniel TAO, Professor, University of Kentucky, USA
Secretary	Ahmed ZNIBAR, Chakour MOUNTASSIR
Facilitators	Luis Rudolphy, Asa Weber, Venkoba Rao. B

Program :

- 4:00 pm - 4:20 pm** **Nouveau mécanisme de flottation – Float Force**
MM. Luis Rudolphy and A. Khamsine
OUTOTEC, Germany
- 4:20 pm - 4:40 pm** **Process and Flotation Cell Design Considerations For Phosphate Applications**
MM. Asa Weber and JC SERBON
FLSMIDTH, USA/France
- 4:40 pm - 5:00 pm** **Grade Recovery prediction of an Operating Plant using Flotation Model & Operating conditions**
MM. Venkoba Rao. B; Kumar Velan. H and Ramesh Mahadevan,
DELKOR GLOBAL INDIA
- 5:00 pm - 6:00 pm** **Debates**
- 6:00 pm - 6:20 pm** **Recommendations and conclusions**



FOULING IN PHOSPHORIC ACID

Workshop 10

Date and Time	Friday, May 10th – 4:00pm – 6:20pm
Room	ATLAS
Chairperson	EL BAHRAOUI, Directeur Général KIMIA, Maroc
Secretary	Said EL ASRI, Chef de Projet OCP SA Kacem ABDOUSS, Maître de recherche OCP SA
Facilitators	AMALHAY, KHAMAR, AZAROUAL, Hamid MAZOUZ, John CARR, OMARI, ALAMI.

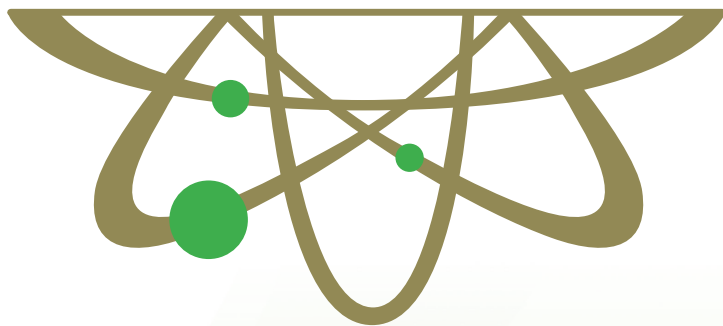
Program :

- 4:00 pm - 4:20 pm** **Modélisation et compréhension des problèmes d'encrassement lors de la fabrication d'acide phosphorique.**
MM. AMALHAY, KHAMAR, AZAROUAL
OCP SA - BRGM, Maroc/France
- 4:20 pm - 4:40 pm** **Amélioration de la performance de la concentration d'acide phosphorique par la réduction du phénomène d'encrassement**
Mr. Hamid MAZOUZ
OCP SA, Maroc
- 4:40 pm - 5:00 pm** **Scale controlling chemical additives for phosphoric acid production plants**
Mr. John CARR
Cytec Industries, Inc., USA
- 5:00 pm - 5:20 pm** **Utilisation de la technique des radiotraceurs pour l'évaluation et la localisation des problèmes d'encrassement dans les unités de fabrication d'acide phosphorique.**
MM. OMARI & ALAMI
OCP / CNESTEN, Maroc
- 5:20 pm - 6:00 pm** **Debates**
- 6:00 pm - 6:20 pm** **Recommendations and conclusions**





NOVELTY SHOWS





WIRTGEN "TECHNOLOGIES IN SURFACE MINING"

NOVELTY SHOW PROGRAM

Location & Date	Room ROMARIN - Thursday, May 9 th , 2013
Time	8:30 am - 10:00 am
Moderators Name & Occupation	Mr. Andreas Marquardt, WIRTGEN GmbH Mr. Amine Lahrichi, S.M.D.M.
Language	French
Target Audience	Everybody is welcome to attend

Technical Program

Time	Title	Speaker
8:30 – 8:45	Presentation of Wirtgen Group Technology Experience and Machine Distribution in the World	Mr. Andreas Marquardt
8:45 – 9:00	Technical Presentation on Surface Mining & Applications	Mr. Andreas Marquardt
9:00 – 9:15	Experiences and Results in Mines & Minerals Lime Stone, Gypsum, Oil Shale, Coal, Bauxite, Iron Ore, Phosphate	Mr. Andreas Marquardt
9:45 – 10:00	Open Panel Discussion Questions & Conclusions	Mr. Andreas Marquardt Mr. Amine Lahrichi

SYMPHOS TV & Showcase Programs

Time & Location	SYMPHOS TV - 10:00 - 10:30
Presenter's Name	Andreas Marquardt & Amine Lahrichi
Description of the product to expose	
Weight	
Size	



DUPONT SUSTAINABLE SOLUTIONS EMEA

NOVELTY SHOW PROGRAM

Location & Date	Room ROMARIN - Thursday, May 9 th , 2013
Time	2:00 pm - 3:30 pm
Moderators Name & Occupation	Mr. Thierry Marin, EMEA Clean Technologies Director Mr. Giovanni Marchesi, Sales Manager MECS®
Language	English
Target Audience	Everybody is welcome to attend

Technical Program

Time	Title	Speaker
2:00 pm	Welcome speech	Mr. Thierry Marin
2:10 pm	SO2 Emissions: MECS® Innovations for Sulphuric Acid Plants with Clean Technologies	Mr. Giovanni Marchesi
3:00 pm	Q&A session	

SYMPHOS TV & Showcase Programs

Time & Location	
Presenter's Name	
Description of the product to expose	
Weight	
Size	



KOMATSU & STOKVIS

NOVELTY SHOW PROGRAM

Location & Date	Salles des Expositions - Thursday, May 10 th , 2013
Time	08:30 am - 10:00 am
Moderators Name & Occupation	Mr. Nicolas Rousseau, European Fleet Manager, Komatsu Europe Mr. Thomas Harsk, Area Manager, Komatsu Mining Germany GMBH Mr. Chakib Benelkhadir, Directeur General, Stokvis
Language	English / French
Target Audience	Everybody is welcome to attend

Technical Program

Time	Title	Speaker
8:30 – 8:45	Optimum Fleet Recommendations	Mr. Nicolas Rousseau
8:45 – 9:15	KOMTRAX/PLUS (Smart Mining Management System)	Mr. Thomas Harsk
9:15 – 9:30	STOKVIS Skills Program	Mr. Chakib Benelkhadir
9:30 – 10:00	Discussion and recommendations	KOMATSU - STOKVIS

SYMPHOS TV & Showcase Programs

Time & Location	SYMPHOS TV - 10:00 - 10:30
Presenter's Name	Chakib Benelkhadir, Managing Director, Stokvis
Description of the product to expose	
Weight	
Size	



DUPONT SUSTAINABLE SOLUTIONS EMEA

NOVELTY SHOW PROGRAM

Location & Date	Room ROMARIN - Friday, May 10 th , 2013
Time	2:00 pm - 3:30 pm
Moderators Name & Occupation	Mr. Thierry Marin, EMEA Clean Technologies Director Mr. Pascal du Bois d'Enghien, Alloy Project Manager
Language	English
Target Audience	Everybody is welcome to attend

Technical Program

Time	Title	Speaker
2:00 pm	Welcome speech	Mr. Thierry Marin
2:10 pm	Alloy Equipment in Sulfuric Acid Production - Solution for Efficient, Reliable and Safe Operations	Mr. Pascal du Bois d'Enghien
3:00 pm	Q&A session	

SYMPHOS TV & Showcase Programs

Time & Location	
Presenter's Name	
Description of the product to expose	
Weight	
Size	





SYMPHOS TV

The innovation of the 2nd edition is the SYMPHOS TV stage called "**SYMPHOS TV.**"

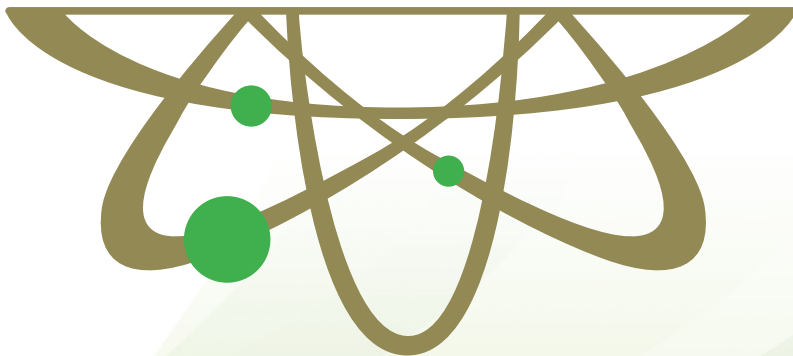
The SYMPHOS talk show will host lecturers, presenters of Novelty shows to speak about their topics and innovations.

SYMPHOS TV will cover the exhibition zone, lectures, keynotes, and workshops as well.

The companies, especially those which moderate Novelty shows, will be invited to talk about their innovations and strategy on the stage of SYMPHOS TV with the moderator and the experts in the field.

The lecturers will also have the opportunity to speak more about their approaches and developments on the various topics addressed.

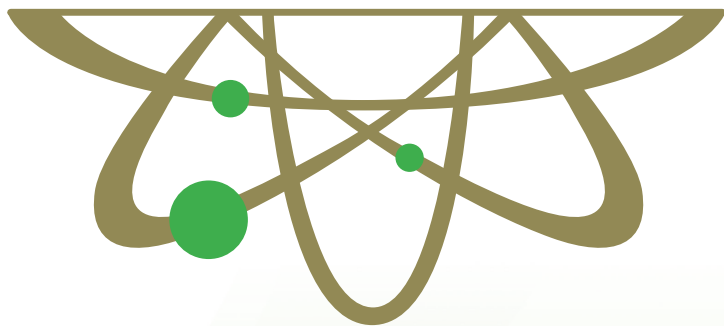
SYMPHOS TV will be available online at www.symphos.com







COURSES





SHORT COURSES

BUILDING A BUSINESS CASE FOR SUSTAINABILITY

The 2nd edition of SYMPHOS offers to its participants various technical short courses on important topics for the phosphate industry, all delivered by worldwide experts and qualified professionals of the sector.

COURSE 1: ICM VERSUS JORC GUIDELINES, 43-101 REGULATION FOR MINERAL RESOURCES & RESERVES ESTIMATION

Speakers: Daniel Gagnon, Ing. (General Manager – Mining Group, Met-Chem Canada Inc.) and Schadrac Ibrango, Ph.D., P.Geo. (Senior Geologist, Met-Chem Canada Inc.)

Objective: A quick review on the CIM (Canada) and JORC (Australia) guidelines related to mineral resources and mineral reserves estimation.

Content:

- **Part I:** related to mineral resources estimation
- **Part II:** related to mineral reserves estimation
- **Part III:** comparative analysis of CIM and JORC guidelines and will discuss the Canadian regulation 43-101 on respecting standards in that area of the mining industry.

COURSE 2: TECHNIQUE DE FLOTTATION DES MINERAIS PHOSPHATES

Speakers: Pr. Mohammed EL ASRI

Objective: Comprendre les phénomènes de chaque étape du processus de flottation, de la dépression, de la collection et de moussage; optimiser la consommation des réactifs de flottation; connaître le principe de traitement de surface.

Content:

- Bases de la minéralurgie, principe de la flottation
- Réactifs chimiques, cellules et colonnes de flottation
- Réglage et optimisation des paramètres de marche d'une unité d'enrichissement de minerai de phosphate par flottation



COURSE 3: THE DIRECT USE OF REACTIVE PHOSPHATE ROCKS IN CROP PRODUCTION

Speakers: Nassir A. and L. Cisse (OCP) Sri Rochayati and Husnain (ISRI)

Objective: Provide an overview of the present world situation and prospects for the direct use of phosphate rocks in crop production; present the physical and chemical characterizations of phosphates rocks for direct application; review the main factors affecting the agronomic effectiveness of phosphate rocks applied to different crops.

Content:

Overview of the direct use of phosphate rocks in crop production / characterizations of phosphate rocks for direct application

- Factors affecting the agronomic effectiveness & soil testing of phosphate rocks

COURSE 4: HSE IN DESIGN

Speakers: Rachid M'hamdi, Chef département HSE in Design et Rachad Zakaria ingénieur senior au department HSE in design à Jacobs Engineering SA

Objective: Fournir un aperçu sur le rôle de l'ingénieur HSE in en design dans une société d'ingénierie et les activités à réaliser dans le cadre des projets industriels.

Content:

- **Partie I:** aperçu sur la réglementation Marocaine et internationale en matière d'environnement.
- **Partie II:** présentation de la loi marocaine sur les études d'impacts : contexte, méthodologie de mise en œuvre.
- **Partie III:** présentation de l'activité HSE in design.



COURSE 5: TECHNOLOGIES DE DESSALEMENT DES EAUX DE MER ET DES EAUX SAUMÂTRES : ASPECTS TECHNIQUES, ÉNERGÉTIQUES ET D'EXPLOITATION

Speakers: Azzeddine ELMIDAOU, Professeur (Président de la Société Marocaine des Membranes et de Dessalement, Université Ibn Tofail, Kénitra, Maroc)

Objective: Exposer les différentes technologies de dessalement en s'arrêtant plus sur les technologies membranaires et particulièrement l'Osmose Inverse.

Content:

- **Partie I:** Les différentes technologies de dessalement
- **Partie II:** L'Osmose Inverse : aspects techniques et énergétiques
- **Partie III:** L'exploitation d'une station de dessalement.

COURSE 6: MINING AND SUSTAINABLE MANAGEMENT

Speakers: Rachid Hakkou, Professor at Cadi Ayyad University Mostafa Benzaazoua, Professor UQAT, Canada. Chawky Beldjelida, Professor à CEGEP Abitibi, Québec, Canada

Objective: To acquire the necessary concepts for mines exploitation, to assess mining impacts on the environment, to know the design & monitoring parameters of tailings & wastes rock dump...

Content:

- Mining exploitation and sustainable development & Nature of mine wastes, presentation of different techniques for the rehabilitation of open pit mines

COURSE 7: MODÉLISATION ET SIMULATION DES PROCÉDÉS DE TRANSFORMATION DES PHOSPHATES

Speakers: Pr. Tijani Bounahmidi, EMI, Maroc

Objective: Mettre en évidence la nécessité de combiner différentes approches de modélisation pour simuler le comportement de procédés régis par des phénomènes complexes tels que ceux de l'industrie des phosphates.

Content:

- Méthodologie de l'ingénierie des procédés assistée par ordinateur
- Les principaux phénomènes mis en jeu dans les procédés: les équilibres thermodynamiques; la cinétique de transformations chimiques ; la cinétique des phénomènes de transfert et les écoulements
- Les trois grandes catégories de modèles de procédés.



COURSE 8: 4R NUTRIENT STEWARDSHIP FOR IMPROVED NUTRIENT USE EFFICIENCY

Speakers: A. Johnston, Vice President Asia & Africa, M. ElGharous, S. Zingore and H. Boulal (IPNI).

Objective: Insights on: IPNI 4R Nutrient Stewardship, background information on sub-Saharan Africa, Moroccan agriculture, Examples of 4R practices to Improve Nutrient Use Efficiency and Soil fertility status

Content:

- IPNI 4R Nutrient Stewardship
- Background information on Sub-Saharan Africa & Moroccan Agriculture ...etc.

COURSE 9: PROCESS TRANSFORMATION IN PRODUCTION, SAFETY, AND SUSTAINABILITY THROUGH INFORMATION TECHNOLOGY

Speakers: Dr. Sean Dessureault, Associate Professor - University of Arizona - USA
Associate Professor - University of Arizona - USA

Objective: Insights three key areas in emerging innovations driven by information technology: 1- Mobile equipment monitoring. 2- The use of processing plant information. 3- The use of social media and sustainability indicators technology

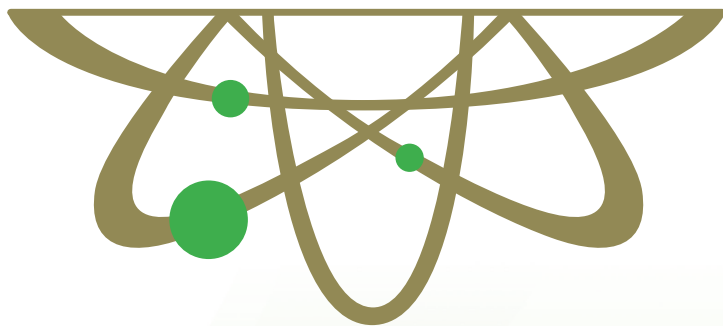
Content:

- **Part 1:** Selection, Implementation, and Effective Use of Mobile Equipment Monitoring Technology as a Lead toward Automation.
- **Part 2:** Plant Historians and the Integration of Process Data with Mine Data.
- **Part 3:** The use of Social Media and Sustainable Development Data at reducing Social Risk in Mine Development and Operation.

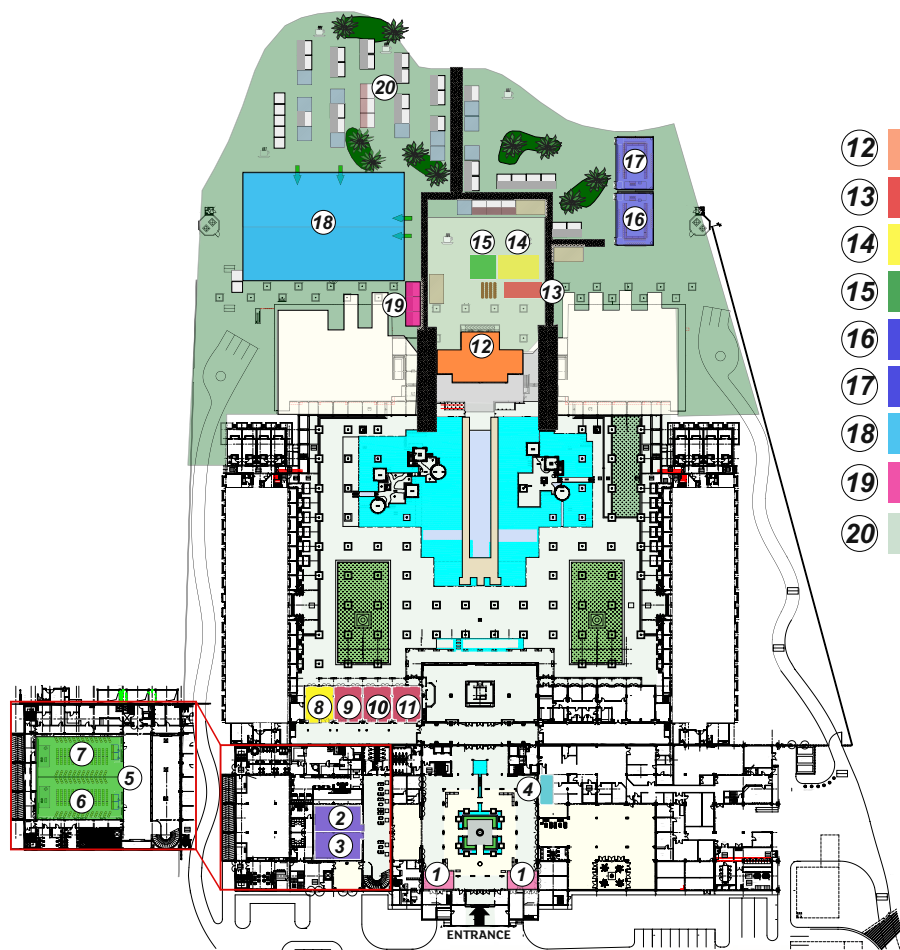




EXHIBITORS







- 12 B2B MEETINGS
- 13 SYMPHOS TV
- 14 NOVELTY SHOW PLATFORM
- 15 OCP BOOTH
- 16 ATLAS ROOM WORKSHOPS
- 17 ATLANTIC ROOM WORKSHOPS
- 18 SAFRAN ROOM PLENARY SESSIONS
- 19 MEDIA CORNER
- 20 EXHIBITION AREA

- 1 REGISTRATION AREA
- 2 LOUNGE ART ROOM COURSES / THEMATIC SESSIONS
- 3 DRAA ROOM COURSES
- 4 SPEAKER'S ROOM

- 5 ROYAL ROOM CONFERENCES
- 6 ROMARIN ROOM THEMATIC SESSIONS NOVELTY SHOWS
- 7 ARGAN ROOM THEMATIC SESSIONS NOVELTY SHOWS

- 8 TIZNIT ROOM PRESS
- 9 TAROUDANT ROOM COMMITTEE MEETINGS
- 10 QUARZAZATE ROOM COURSES / MEETINGS
- 11 ZAGORA ROOM COURSES / MEETINGS



8

ABB S.A.

Foundation date

1980

Head quarters

Maroc

Turnover

5.4 M Euros

Business Field

Automation des procédés, produits à basse tension, Composants

Market presence

-

Product(s) and Service(s)

-

Number of employees

50-100

Partners and Clients

OCP, Holcim, ONE, Maghreb Steel, Consumar, Sonasid, Climat

Presentation

ABB (www.abb.com) est un leader mondial dans les technologies d'énergie et d'automatisation qui permet à ses clients industriels et aux utilités d'améliorer leurs performances tout en diminuant l'impact de leurs activités sur l'environnement. Le Groupe ABB est présent dans environ 100 pays et emploie quelque 145 000 personnes.

Contact at Symphos

Youssef KHOUYI
Key Account Manager

Tel : +212 661 77 15 48

Adress : 7 Bvd Capitaine Vuillanier Ain Sebaa, B.P 2648. 20250
Casablanca - MarocE-mail : youssef.khouyi@ma.abb.com

AFIT - GROUPE PREMIUM

Foundation date

1987

Head quarters

Maroc

Turnover

Plus de 50 M MAD en 2013

Business Field

Mines & Carrières, énergie, les travaux publics, l'automobile, etc...

Market presence

-

Product(s) and Service(s)

Distribution des fournitures industrielles

Number of employees

Plus de 50 collaborateurs

Partners and Clients

SKF, Hydac, Gates, SIG, OCP, etc....

Presentation

AFIT en s'investissant dans le partenariat avec des fournisseurs leaders mondiaux et en formant ses effectifs pour pouvoir apporter de l'assistance et du conseil technique veut participer à la compétitive, la productivité et la rentabilité de ses partenaires/clients. Des budgets importants sont alloués chaque année à la maintenance des installations pneumatiques, mécaniques et hydrauliques. AFIT, en complétant son offre par la proposition de prestations et formations sur mesure, ambitionne de rendre cette même maintenance source d'économies non négligeables.

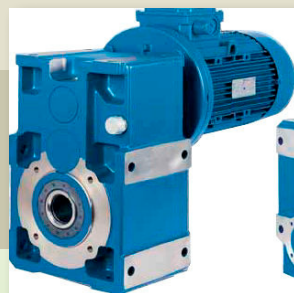
Contact at Symphos

Atika RZIK / Responsable Marketing

Tel : +212 522 63 37 69/82

Adress : Route nationale d'El Jadida KM 14, Commune rurale
Ouled Azouz 20 190 Casablanca - Maroc

E-mail : atika.rzik@premium.net.ma



AKZONOBEL

Foundation date

1994

Head quarters

Netherlands

Turnover

15.4 MM Euros

Business Field

World's Targets Paints & Coatings Company

Market presence

-

Product(s) and Service(s)

Paints and Specialty Chemicals

Number of employees

55,000

Partners and Clients

-

Presentation

AkzoNobel is the largest global paints and Coatings Company and a major producer of specialty chemicals. International® Paints is the leading brand of AkzoNobel's Marine & Protective Coatings (M&PC) business unit. With operations in more than 80 countries, our 55,000 people around the world are committed to excellence and delivering Tomorrow's Answers Today.

Contact at Symphos

Mariem KBABRA
Customer Advisor

Tel : +212 661 92 00 17

Address : 64 BD My slimane, 20300 Casablanca - Maroc

E-mail : mariem.kbabra@akzonobel.com





ARRMAZ

Foundation date

-

Head quarters

Florida

Turnover

-

Business Field

-

Market presence

USA, BRAZIL, CHINA, EUROPE, CHINA, SAUDI ARABIA

Product(s) and Service(s)

Dust Control & Anticaking Agents, Flotation and Defoamer Agents.

Number of employees

-

Partners and Clients

-

Presentation

-

Contact at Symphos

Joseph CHRISTENSON
Technical Sales Manager

Tel : +1 863 692 9340

Adress : Florida, Casablanca - USA, Morocco

E-mail : jchristenson@arrmaz.com



ATLAS COPCO MAROC S.A.

Foundation date

1948

Head quarters

Maroc

Turnover

262 713 985 MAD

Business Field

Importation- Réparation-Vente de Matériel à air comprimé pour l'industrie- les mines et les BTP

Market presence

-

Product(s) and Service(s)

Compresseurs-matériel de forage & construction

Number of employees

70 personnes

Partners and Clients

-

Presentation

Atlas Copco est présente au Maroc depuis plus de 65 ans. Grâce à ses produits performants, Atlas Coopco est un partenaire privilégié dans les grands projets industriels et miniers au Maroc.

Contact at Symphos

Abdelkrim CHELLAH
Directeur Commercial Mines & TP

Tel : +212 522 63 40 00

Adress : 2-6 Rue Ibnou Adara El Marrakouchi- 20350 Casablanca

E-mail : abdelkrim.chellah@ma.atlascopco.com





AUMUND GROUP

Head quarters

Rheinberg, Germany

Business Field

Abrasive or hot materials handling equipment as well as for top quality customized solutions in bulk handling.

Product(s) and Service(s)

Apron, pan or chain conveyors for primary or secondary crusher feeding and hopper discharge - Chain and armoured chain conveyors in different stages of industrial processes - Belt and chain bucket elevators (conventional chain as well as central chain) for vertical material transport - Various different machines for storage, silo and hopper extraction - Storage and blending bed equipment (SCHADE Lagertechnik, AUMUND Group) - Automatic wagon unloading systems (SCHADE Lagertechnik, AUMUND Group) - Ship unloading and loading equipment (SAMSON Material Handling, AUMUND Group) - Mobile stacking and loading (SAMSON Material Handling, AUMUND Group)

Presentation

AUMUND Fördertechnik GmbH is a specialist of most reliable and efficient solutions in bulk handling. The company, located in Rheinberg, Germany, is particularly well-known for its abrasive or hot materials handling equipment as well as for top quality customized solutions in bulk handling. A number of successful projects justify the good AUMUND reputation. Reference customers in fertilizers are e.g. AMEC, BASF, BAYER, EUROCHEM, FLS, K+S, OCP, POLYSIUS, PSC, VALE.

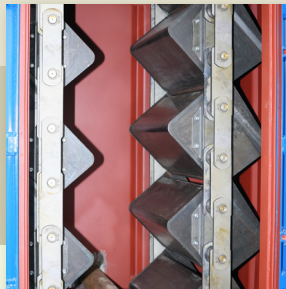
Contact at Symphos

Christoph SCHOLZ / Sales Manager

Tel : +49 2843 72 173

Fax : +49 2843 72 5 377

E-mail : minerals@aumund.de





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BASF

Foundation date

1865

Head quarters

Iselin, New Jersey, USA

Turnover

-

Business Field

Catalysts, Adsorbents, Battery Materials, Precious Metals Services

Market presence

Global

Product(s) and Service(s)

Catalysts, Adsorbents, Battery Materials, Precious Metals Services

Number of employees

5300 globally (Catalysts Division)

Presentation

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals. BASF's Catalysts division develops unique, proprietary catalyst and adsorbent solutions that drive customer success.

Contact at SympHos

Tiny KOELEWIJN / Sales & Marketing Specialist

Tel : +31 306 66 93 09

Adress : BASF Nederland B.V., P.O Box 19, 3454 ZG De Meern. The Netherlands

E-mail : tiny.koelewijn@basf.com

BLAIR RUBBER COMPANY

Foundation date

1981

Head quarters

Etats-Unis

Turnover

Entreprise privée

Business Field

Fabricant de revêtement en caoutchouc de qualité industrielle

Market presence

-

Product(s) and Service(s)

Revêtement en caoutchouc de qualité industrielle

Number of employees

65 - 100 personnes

Partners and Clients

-

Presentation

Avec plus de 60 revêtement en caoutchouc the Blair Rubber Company est un leader sur le marché de resistance ou corrosion. Nous développons, combinons et assemblons notre revêtements en interne. Nous sommes particulièrement intéressés a introduire notre revêtements utilisés dans les applications phosphorique.

Contact at Symphos

Thomas BOGART
Représentant des ventes

Tel : +1 440 503 7978

Adress : 5020 Panther Parkway, Seville OH 44273 - Etats-unis

E-mail : tom.bogart@blairrubber.com



BRAY

Foundation date

1986

Head quarters

Houston, Texas

Turnover

Confidential

Business Field

Industrial valves, actuators and control equipment

Market presence

Global presence

Product(s) and Service(s)

Shutoff-valves, control-valves, Actuation

Number of employees

Approx 1.800

Partners and Clients

-

Presentation

Bray offers a wide range of industrial valves in various designs-pressure ratings up to ANSI, Class 90 - and materials, e.g AISI 904L for all sorts of standard, corrosive or abrasive application. Actuation & control equipment are part of our scope as well as assistance in the proper selection of valve design, size and materials of construction.

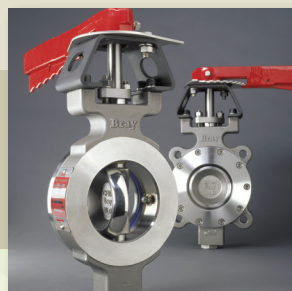
Contact at Symphos

Robert GERWIEN
Sales development manager

Tel : +49 172 216 57 44

Adress : Europark Fichtenhain A 13b, 47807 Krefeld - Germany

E-mail : Robert.Gerwien@bray.de



CCIC

Foundation date

1957

Head quarters

Maroc

Turnover

22 M MAD

Business Field

Filtration, Soudage, Etanchéité, Lubrification, Assemblage de tubes

Product(s) and Service(s)

Filtres, Postes de soudure, Electrodes, Garnitures mécaniques

Number of employees

31

Partners and Clients

OCP - MANAGEM - SURAC- COSUMAR - SAMIR - ONE - SOMAGEC

Presentation

La société CCIC est présente au Maroc depuis 1957. Elle est spécialisée dans la solution de produits et services de maintenance.

Les fournisseurs que représente CCIC sont des leaders internationaux qui lui apportent leur expérience et leur savoir faire. Ainsi, CCIC est le partenaire privilégié pour tous les produits de maintenance des industries, du BTP, des Mines, et des Sociétés du Transport.

Ses partenaires fournisseurs sont : Castolin - Fleetguard/ Cummins - Loctite - Chesterton - Molokyte/Dow Corning - Victaulic - Zepro

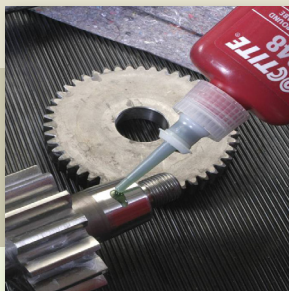
Contact at Symphos

Hakim NEJJAR
Directeur Général

Tel : + 212 661 19 42 93

Adress : 150 rue d'Ifni - BP 22089 - 22 500, Casablanca - Maroc

E-mail : h.nejjar@ccic.ma





CHEMETICS®

28

CHEMETICS INC.

Foundation date

1970

Head quarters

Canada

Turnover

-

Business Field

Sulphuric Acid

Market presence

-

Product(s) and Service(s)

Designer and supplier of Sulphuric acid plants and proprietary sulphuric acid coolers, acid towers, gas heat exchangers converters, SARAMET™ acid distributors and piping.

Number of employees

-

Partners and Clients

-

Presentation

-

Contact at Symphos

Michael FENTON
Senior Business Development Manager

Tel : +212 523 34 51 22

Fax : +212 523 34 50 64

E-mail : michael.fenton@jacobs.com

CLARIANT

CLARIANT INTERNATIONAL LTD.

Foundation date

-

Head quarters

The Woodlands, Texas

Turnover

-

Business Field

-

Market presence

All major continents

Product(s) and Service(s)

Flotation chemicals and emulsifiers for explosives

Number of employees

100

Partners and Clients

-

Presentation

Clariant Mining Solutions is a leading provider of flotation chemicals and emulsifiers for explosives to the global mining industry. Its strong and growing team of technical experts is dedicated to providing world-class specialty chemical solutions that add value to customers' mining operations, worldwide. The company, headquartered in The Woodlands, Texas, operates a state-of-the-art R&D laboratory to serve the North American market.

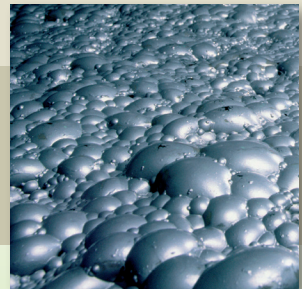
Contact at Symphos

KlausUlrich PEDAIN
Senior Metallurgist, Application Development

Tel : +49 69 305 6851

Adress : Industriepark Höchst 65926 Frankfurt - Germany

E-mail : klausulrich.pedain@clariant.com





CMD GEARS

Foundation date

1901

Head quarters

France

Turnover

90 M Euro

Business Field

Transmissions mécaniques à fort couple

Market presence

-

Product(s) and Service(s)

REDUCTEURS, ACCOUPLEMENTS, PIGNONS & COURONNES

Number of employees

410 personnes

Partners and Clients

Les industries lourdes : Ciment, Mine, Chimie, Metallurgie, Energie

Presentation

CMD est spécialisée dans l'étude, la fabrication, l'installation sur site et le suivi de groupes de commande, de réducteurs, d'accouplements, de pignon-couronnes (jusqu'à 16 m de diamètre) de bandages, de galets, destinés à l'entraînement des équipements stratégiques des industries lourdes telles que cimenteries, mines, sidérurgies, métallurgies, chimie, sucreries, énergie. Matériels entraînés: agitateurs, décanteurs, broyeurs, tubes enrobeurs, granulateurs, sècheurs.

Contact at Symphos

Jean-Luc MONTABROUD
Directeur commercial Afrique du nord

Tel : +33 1 34 63 12 15 / +33 6 08 55 86 05

Adress : Immeuble l'étendard, 36 av de l'Europe BP 43, F-78142
VELIZY-VILLACOUBLAY - France

E-mail : jl.montabroud@cmdgears.com





COMPAGNIE AFRICAINE DES EXPLOSIFS S.A. - CADEX

Foundation date

1933

Head quarters

Maroc

Turnover

292 M MAD

Business Field

Fabrication et commercialisation des produits explosifs

Market presence

-

Product(s) and Service(s)

Produits explosifs et accessoires de tir- Forage Minage sautage

Number of employees

200 personnes

Presentation

CADEX, établie depuis 1933 au Maroc, offre aux différents utilisateurs une large gamme de produits explosifs de types et accessoires de tir.
Ammonix, Dynamites, Gels Détonateurs, mèches, cordeau détonant.

CADEX met au service de sa clientèle aussi bien au Maroc qu'à l'étranger une équipe de techniciens spécialisés dans l'utilisation des explosifs.

CADEX représente également des sociétés mondialement connues de matériel de foration, feu d'artifice.

Contact at Symphos

Hassan HAIDA
Directeur Commercial Mines & TP

Tel : +212 661 18 92 38

Adress : Compagnie Africaine des Explosifs S.A Lotissement la Colline: Immeuble

E-mail : hassan.haida@yahoo.fr



CPPE

Foundation date

1915

Head quarters

Luxembourg, Europe

Business Field

Air Pollution Control - process and plant engineering

Market presence

Worldwide

Product(s) and Service(s)

Process and Plant Engineering

Number of employees

> 50

Partners and Clients

OCP, SUEZ Environnement, Aurubis, Degussa-Evonik, Sacht-leben, ...

Presentation

CPPE is the legal successor of Lurgi Activated Carbon. Engineering. We are a highly innovative engineering company, inventor of major leading air pollution technologies based around activated carbon and other adsorption technologies. We provide turnkey plants and equipment for the removal of sulphur oxides, hydrogen sulfides, nitrogen oxides, mercury, dioxins, furans, carbon dioxide and others. We have more than 3500 references around the world.

Contact at Symphos

Marc SCHUMACHER
Head Research & Development

Tel : +352 661 144 516

Adress : CPPE S.A. Industrial Complex ArcelorMittal r. de la
Cimenterie L-1337 Luxembourg - Europe

E-mail : marc.schumacher@cppe.lu





CYTEC

51

CYTEC INDUSTRIES INC.

Foundation date

-

Head quarters

5 Garret Mountain Plaza, Woodland Park, NJ 07424

Turnover

-

Business Field

Speciality Chemicals

Market presence

Global

Product(s) and Service(s)

-

Number of employees

-

Presentation

Cytec's vision is to deliver speciality material and chemical technologies beyond our customers imagination. Our focus on innovation, advances technology and application expertise enables to develop, manufacture and sell products that change the way our customers do business. Our pioneering products perform specific and important functions for our customers, enabling them to offer innovative solutions to the industries that they serve. Our products serve a diverse range markets including aerospace and industrial materials, mining and plastics.

Contact at Symphos

Tara TEPP
Marketing Communications Specialist

Tel : 973 357 3347

Adress : 5 Garrett Mountain Plaza, Woodland Park, NJ 07424 - USA

E-mail : tara.tepp@cytec.com



DELKOR GLOBAL

Foundation date

1998

Head quarters

DELKOR GLOBAL, VANCOUVER, CANADA

Turnover

\$100 M

Business Field

Equipment for Mineral processing, chemical processing, solid liquid separation

Market presence

AROUND THE GLOBE

Product(s) and Service(s)

Thickeners, Filters, Flotation cells, Grinding Mills, Agitators, Linear

Number of employees

300

Partners and Clients

-

Presentation

Delkor is a diverse solutions-based equipment supply company in the Solid / Liquid Separation

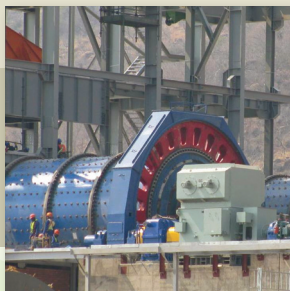
Contact at Symphos

Venu GOPAL CHAGI
Manager - Proposals & Technical Services

Tel : +91 99804 66188

Address : 108/D, 6th Main Road, III Phase, Peenya, Bangalore, India
- 560 058

E-mail : venugopal.chagi@delkorglobal.com





4

DUPONT SUSTAINABLE SOLUTIONS

Foundation date

1802

Head quarters

Wilmington, Delaware, USA

Turnover

\$31.5 MM

Business Field

Science and engineering

Market presence

Worldwide

Product(s) and Service(s)

-

Number of employees

> 67'000 employees worldwide

Partners and Clients

Clients include: American Airlines, Avery Dennison, Borealis AG, Cadb

Presentation

DuPont Sustainable Solutions is one of 13 DuPont businesses. Bringing customers the benefit DuPont (NYSE: DD) has been bringing world-class science and engineering to the global mark.

Contact at Symphos

Thierry MARIN

Tel : +32 4 74 92 13 06

Adress : Du Pont de Nemours (Belgium) BVBA Industriezone
"Mechelen Zuid 1" Antoon Spino - Belgium

E-mail : Thierry.Marin@dupont.com



ECTM

Foundation date

2006

Head quarters

Maroc

Turnover

62 739 556 MAD

Business Field

Industrie - Agriculture - Bâtiment & Travaux Publics - Habitat

Product(s) and Service(s)

Variateur et Moteur réducteur "Watt Drive"

Number of employees

40

Partners and Clients

Cegelec - ORMVA - Amendis - OCP

Presentation

Lei Maroc et son partenaire WEG vous offrent des solutions globales dans tout process industriel. WEG est un constructeur de moteurs BT et HT échelonnant de 0.12 à 50000 Kw, de motoréducteurs, d'alternateurs et de transformateurs THT 300 MVA et de variateurs de vitesse BT/HT. Le groupe WEG 22000 collaborateurs et des usines réparties dans 12 pays.

A l'occasion de ce salon, WEG mettra en avant son offre motoréducteurs, ses systèmes WMagnet et WQuattro qui répondent à la classe de rendement IE4 (Super Premium), sa gamme de variateurs de vitesse CFW11 ainsi que ses moteurs asynchrones W22 de la classe IE1 à IE3.

Contact at Symphos

Aziza AGRICHE / Responsable Achat

Tel : +212 522 35 41 42

Adress : BD El Binaa Angle Baname la gracieuse. Quartier Industriel
Casablanca - Maroc

E-mail : a.aziza@ectm.ma



EFC EUROPEAN FILTER CORPORATION

Foundation date

1989

Head quarters

Belgium

Turnover

5 M €

Business Field

Air and Liquid Filtration

Market presence

-

Product(s) and Service(s)

Air and Liquid Filters

Number of employees

-

Partners and Clients

-

Presentation

-

Contact at Symphos

Alain HENRARD
Sales Manager

Tel : +32 13 530 540

Adress : Dellestraat 30, B-3560 Lummen - Belgium

E-mail : alain.henrard@efc-belgium.be

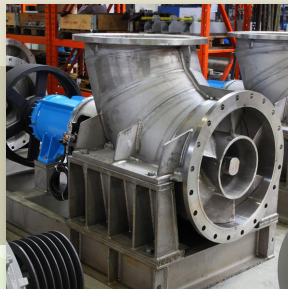




ENSIVAL MORET

Foundation date	1868
Head quarters	ENSIVAL MORET Saint Quentin 02100 France
Turnover	170 M €
Business Field	Oil&Gas, Chemical, Sugar, Fertilizers, Metallurgic, Desalination, Navy, Solar, P
Market presence	Worldwide presence
Product(s) and Service(s)	Design and Manufacturing of Industrial pumps
Number of employees	1000
Partners and Clients	OCP, GCT, Total, ICS, COSUMAR, Sanofi Aventis, All Engineering
Presentation	ENSIVAL MORET A Solution Finder. With a hundred-year experience in the design and manufacturing of industrial pumps, Ensival Moret is now a world-famous supplier whose know-how is internationally recognised. Renowned for its reliable technical solutions and high quality products, Ensival Moret supplies a wide range of industrial pumps for meeting all industrial requirements, even the most specific ones with difficult pumping conditions. Close to its customers and able to adapt to all specific requirements. Its continuous innovation policy and the efficiency of its R&D enable to provide its customers with ever more efficient solutions.

Contact at Symphos	Nicolas RODET / Area Sales Manager French Africa Tel : +33 6 86 63 18 11 Address : Ensival Moret France Chemin des ponts et Chaussées 02100 Saint Quentin - France E-mail : nro@em-pumps.com
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ETAFAT

Foundation date

1983

Head quarters

Maroc

Turnover

29 300 118.10 MAD

Business Field

Topographie - Lasergrammetrie - Cartographie - Systèmes d'information Géographique - Expertise Foncière

Number of employees

153

Partners and Clients

ADDOHA - ONCF - ANP - ONDA - MARSA-MAROC - TMSA - ALLIANCES - NAREVA - OCP - ANCFCC - LYDEC - RAM - Autoroutes du Maroc - ONEE - ADM - AFRIQUIA - Ministère de l'habitat.

Presentation

A l'assise de tout projet d'aménagement urbain ou rural, d'infrastructure, la qualité des données spatiales est un des facteurs vitaux de la réussite et de la concrétisation de ces projets. C'est dans cette optique qu'ETAFAT s'impose depuis plus de 30 ans.

Notre mission est de contribuer auprès des pouvoirs publics, privés et des acteurs du développement économique à une démarche équilibrée d'aménagement du territoire et de gestion de l'habitat et de l'environnement.

Ces compétences se déclinent autour de pôles d'activités que sont la topographie et les nouvelles technologies de l'information géographique.

Contact at Symphos

Khalid ZAHIRI

Directeur du pôle 3D Mapping

Tel : +212 522 79 87 00/01 / +212 668 30 63 03

Adress : Lot 57, lotissement Salaj, Ain Diab, Casablanca - MAROC

E-mail : khalidz@etafat.ma



FERTIPROCESS

Foundation date

2011

Head quarters

-

Turnover

-

Business Field

Ingénierie, design & fabrication d'équipement pour usines d'engrais

Market presence

-

Product(s) and Service(s)

Broyeur, compacteur, tube granulateur, crible, tamiseur, vibrant

Number of employees

-

Partners and Clients

-

Presentation

Fertiprocess est une association de 5 sociétés françaises qui propose les technologies suivantes : Granulation sèche, granulation humide, séchage et refroidissement, broyage, criblage et tamisage et transport par vibration. Le groupement a pour objectif de proposer une offre et une expertise globale afin de garantir la meilleure réponse aux industriels des engrais.

Contact at Symphos

Bastien TRICART
Business development manager

Tel : +33 786816771

Adress : Espace International - 299 boulevard de Leeds - 59777
Euralille - France

E-mail : b.tricart@fertiprocess.com


fives fcb



FIVES FCB

Foundation date

31/07/2000

Head quarters

France

Turnover

-

Business Field

Industrie du ciment et broyage de minéraux

Market presence

-

Product(s) and Service(s)

Cimenteries, lignes de cuisson, ateliers de broyage, revamping

Number of employees

211

Partners and Clients

Buzzi-Unicem, Cemex, Holcim, Lafarge, Qatar National Cement Co

Presentation

FIVES Fcb est une société française dédiée à l'industrie du ciment et au broyage de minéraux qui propose une large gamme d'équipements, de la pièce de rechange à la cimenterie complète. FIVES Fcb conçoit et fournit des équipements de procédé innovants, tels que le broyeur Horomill®, le séparateur TSV™ et le concasseur Rhodax®, qui répondent aux critères les plus exigeants du marché en terme de qualité de produit, de consommation d'énergie et d'émissions polluantes.

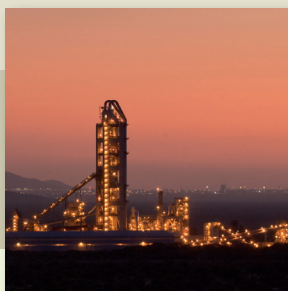
Contact at Symphos

Jean-Luc DEPLANQUE / Ingénieur Service après vente

Tel : 33 3 20 43 75 22

Adress : 50 rue de Ticléni - 59666 Villeneuve d'Ascq - France

E-mail : jean-luc.deplanque@fivesgroup.com





FLOWROX

Foundation date

22 September 1993

Head quarters

Lappeenranta, Finland

Turnover

30 M €

Business Field

Equipment manufacturing

Market presence

Europe, USA, Asia, Africa, Australia

Product(s) and Service(s)

Valves, pumps and related services

Number of employees

130

Partners and Clients

150

Presentation

Flowrox is known for its reliable solutions for demanding process conditions.

With over 30 years of experience in elastomer technology, Flowrox is the benchmark for heavy duty valves, pumps and systems.

Flowrox products are an environmentally friendly and cost effective solution for demanding industrial flow control applications.

Contact at Symphos

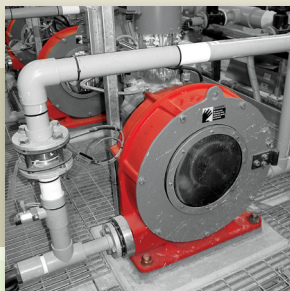
Simon SIMS

Director, Mining, Minerals & Metallurgy Industries

Tel : +44 782 715 7694

Address : Marssitie 1, FI-53600 Lappeenranta, FINLAND

E-mail : simon.sims@flowrox.com



FLSMIDTH

Foundation date

1882

Head quarters

Danemark

Turnover

Groupe : 3.338.000 K €

Business Field

Commercialisation d'équipements industriels

Market presence

-

Product(s) and Service(s)

Dorr Oliver, Eimco, Wemco, Koch, MVT, Automation, Fuller, Möller...

Number of employees

Groupe : 15 900 personnes

Partners and Clients

Grands donneurs d'ordres de l'industrie minière et cimentière

Presentation

FLSmidth est un fournisseur leader dans la fourniture d'équipements pour les industries cimentières, minérales et minières : concassage, broyage, classification, sédimentation, flottation, filtration, pyrotraitement, transport pneumatique de matières...

Les activités de FLSmidth couvrent l'ensemble du processus de développement : gestion de projet, conception et mise en service d'installations, formation, service après-vente.

Contact at Symphos

Jean-Claude SERBON
Directeur Général (filiale française)

Tel : +33 1 60 17 12 63

Adress : FLSmidth SAS, 22 rue Pierre Mendès-France, 77200 TORCY

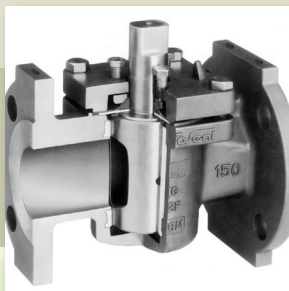
E-mail : jean-claude.serbon@flsmidth.com





FLUOROSEAL INC.

Foundation date	1999
Head quarters	Montreal, Quebec, Canada
Turnover	15 M \$
Business Field	Industrial Valves
Market presence	Global
Product(s) and Service(s)	Sleeved and Lined Plug Valves; Lined Ball Valves; Lined Butterfly V
Number of employees	230
Partners and Clients	OCP; DUPONT; DOW; BAYER; JACOBS; FLUOR; BECHTEL; TECHNIP
Presentation	Fluoroseal manufactures Industrial valves mainly serving the Chemical and mining markets. Fluoroseal Inc. is a fully vertically integrated manufacturing company with full ownership of its foundries and manufacturing facilities. Fluoroseal Inc. has major world end users approvals.
Contact at Symphos	Riad ANTHONY HAFAR Vice President Tel : +1 514 739 0220 Adress : 1875 46th Avenue, Lachine, Quebec. H8T 2N8 - Canada E-mail : riad@fluorosealvalves.com





imagination at work

18

GENERAL ELECTRIC INTERNATIONAL

Foundation date

1892

Head quarters

Fairfield, Connecticut, USA

Turnover

-

Business Field

Energy, health and home, transportation and finance

Market presence

More than 160 countries

Product(s) and Service(s)

Solutions related for water, energy management, oil & gas, health

Number of employees

304 000 employees worldwide

Partners and Clients

-

Presentation

GE works on things that matter. The best people and the best technologies taking on the toughest challenges. Finding solutions in energy, health and home, transportation and finance. Building, powering, curing and moving the world. Not just imagining. We make

Contact at Symphos

Anas KABBAJ
Commercial Development Manager

Tel : + 212 522 94 13 02

Address : 63 boulevard Moulay Youssef, Casablanca, 20000 - Morocco

E-mail : anas.kabbaj@ge.com





HAYNES International

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HAYNES INTERNATIONAL

Foundation date

1912

Head quarters

Kokomo, In, USA

Turnover

450 M \$ US

Business Field

Corrosion Resistant Alloys, Nickel and Cobalt

Market presence

-

Product(s) and Service(s)

Development, Fabrication and Commercialization of Nickel alloys. Available forms: plates, bars, piping, fitting, flanges..

Number of employees

900

Partners and Clients

Sint-Sys, Vichem

Presentation

-

Contact at Symphos

Patrice HOULLE

Tel : +33 689379247

E-mail : patrice.houlle@phcorrosionservice.com

HP MAROC

Foundation date

1983

Head quarters

Maroc

Turnover

30 M MAD

Business Field

Instrumentation/ regulation, pesage industriel ,analyse gaz, robinetterie

Market presence

-

Product(s) and Service(s)

Fourniture, installation et mise en service

Number of employees

42

Partners and Clients

HONEYWELL, GENERAL ELECTRIC, ITECA SOCADES, LACROIX SOFREL

Presentation

Société marocaine qui s'enorgueillit de la competence de ses ingénieurs et techniciens specializes dans le domaine de l'instrumentation / regulation, pesage industriel, télégestion/ sectorisation, robinetterie industrielle, analyse physic-chimique et analyse gaz et poussière. Plusieurs projets realizes avec les industries marocaines en l'occurrence OCP, ONEE, ONCF, les régies distributrices d'eau et d'électricité, secteur pétrochimie et pharmaceutique ainsi que l'agroalimentaire et irrigation.

Contact at Symphos

Khalil JABRANE
Directeur Marketing / Finances

Tel : +212 522 35 82 82 / +212 661 07 04 54

Adress : Rue 23/24 ancienne Route de Rabat, Km 7, Ain Sebaa,
Casablanca - Maroc

E-mail : hpmaroc@hpmaroc.com

IMPERIAL PNEU

Foundation date

1998

Head quarters

Maroc

Turnover

225 M MAD

Business Field

Pneumatiques, Bandes pour convoyeurs

Market presence

-

Product(s) and Service(s)

Pneus, Bandes transporteuse, vulcanisations

Number of employees

80 personnes

Partners and Clients

OCP

Presentation

Depuis sa création en 1998, Imperial pneu a pu se positionner parmi les leaders des pneumatiques au Maroc. Aujourd'hui, Imperial Pneu certifié ISO9001vs2008, est en mesure de proposer à ses partenaires une panoplie de fournitures et services liés aux domaines des pneumatiques et de caoutchoutage ainsi qu'une ligne de produits complémentaires tels que les kits de jonction, bandes transporteuses, batteries, lubrifiants et produits d'entretien.

Contact at Symphos

Lahcen KOUBACH
Directeur des ventes et logistique

Tel : +212 646 23 40 69

Adress : Km 9,2 Ancienne Route de Rabat (à côté Gare ONCF) - Ain Sebaa- Casablanca

E-mail : imperial.pneu@imperial-pneu.ma



Industeel

37

INDUSTEEL

Foundation date

2002

Head quarters

24, 26 d'Auzanches L - Luxembourg

Turnover

940 M Euros

Business Field

Metallurgy

Market presence

Countries of Europe, America, Asia, Middle East

Product(s) and Service(s)

Special stainless carbon steel plates, clad plates, ingots, and prefabricated products.

Number of employees

2300

Partners and Clients

Engineering, constructors, pipe makers, distributors.

Presentation

Industeel, company of ArcelorMittal Group, has a long experience in the production of high quality special steel plates and prefabricated products for industrial equipments, available over a complete dimensional range. Industeel has a wide range of grades in stainless steel as duplex, super duplex, super austenitics and special carbon steel.

Contact at Symphos

Didier PAUL



Foundation date

18 August, 2010

Head quarters

Casablanca, Morocco

Turnover

-

Business Field

Phosphate-Fertilizer, Infrastructure, Enviromental, Water-Wastewater, Buildings, Energy & Power, Advanced Manufacturing & Urban Planning

Market presence

Morocco, US

Product(s) and Service(s)

Engineering, Procurement, Construction Management, PMC

Number of employees

900+

Partners and Clients

OCP

Presentation

-

Contact at Symphos

Nicolas SIMONIN
Vice President & JESA General Manager

Tel : +212 522 87 71 82

Adress : Immeuble 5, Zenith Millenium, Route de Nouaceur, Sidi Maarouf, Casablanca - Morocco

E-mail : Nicolas.Simonin@jacobs-esa.com





Enriching lives, in harmony with nature.



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KAO CORPORATION S.A.

Foundation date

1987

Head quarters

Puig Dels Tudon, 10 Barbera Del Valles, Barcelona, Spain

Turnover

291.881.614 €

Business Field

Chemical additives for Fertilizers, Flotation, Asphalt, Oil-Gas, Metal working

Market presence

EUROPE, AFRICA, ASIA, AMERICA and OCEANIA

Product(s) and Service(s)

Chemical additives for Fertilizers, Flotation, Phosphoric

Number of employees

Acid, KCSA (430)

Partners and Clients

Main companies related on the fields described

Presentation

Kao Chemicals Europe is part of Kao Corporation Japan, with 3 industrial chemical products manufacturing sites. KCE headquarters have been located in Barcelona since 1999, working as a holding company, giving support to the sales structure within the 6 different Business Units into which the company is organized. Three of these Business Units have their origin in surfactant technology and deal with products that are addressed to the Personal Care, Laundry & Cleaning and Technical Applications markets. The other three Oleo, Fragrances & Aroma Chemicals and Imaging Materials, belong to global activities that are coordinated by Kao Japan

Contact at Symphos

Marc ROCAFULL

Sales Manager Technical Applications

Tel : +34 626 51 61 92

Adress : Puig del Tudons, 10 Barcelona - Spain

E-mail : mrocafull@kao.es





KIMIA

Foundation date

1993

Head quarters

MAROC

Turnover

23 M MAD

Business Field

Maintenance Par Procédés Chimiques ; Traitement des Eaux Usée

Product(s) and Service(s)

Maintenance Par Procédés Chimiques ; Traitement des Eaux Usées

Number of employees

25

Partners and Clients

GROUPE OCP ; LESIEUR CRISTAL ; SCBG (COCA) ; AUTO HALL

Presentation

KIMIA est une société Marocaine qui a pour activités :

- La Maintenance Par Procédés Chimiques des différentes installations industrielles afin d'éliminer les problèmes d'encrassement et de corrosion et donc optimiser leur rendement énergétique.
- Le Traitement des Eaux Usées : Etude du Rejet, Conception & Installation de la Station & Mis en service de la STEP & l'assistance technique.
- Le Programme de Traitement Chimique : KIMIA offre des solutions de traitement chimique de eaux par des produits chimiques de haute qualité.

Contact at Symphos

Abdelilah EL BAHRAOUI - Manager

Tel : +212 661 25 57 29

Adress : Résidence Al Hadika, 4^{ème} Etage, N°88, Centre Commercial Aïn Sebaâ, Casa - Maroc

E-mail : a.chahbi@kimia.co.ma



KIMRE, INC

Foundation date

April 18, 1973

Head quarters

Homestead, Florida, USA

Turnover

-

Business Field

Engineered Systems & Products for Separation and Emission Control Needs

Market presence

Worldwide

Product(s) and Service(s)

Multi-stage Aerosol Separation Systems & Internals

Number of employees

50

Partners and Clients

ALTERTECH, KIMRE ENGINEERING INDIA Pvt Ltd

Presentation

Kimre tm engineered clog-resistant, interlaced mesh is superior amongst air pollution control products. It yields superior mass & heat transfer and a particulate mist elimination. Multiple filament selections and layer arrangements, optimize effective particle removal. AEROSEPr Multi-Stage Aerosol Separation System, SXFr Semi-Cross-Flow Contactors, KON-TANer Tower Packing, B-GONr Mist Eliminators, DRIFTORr Drift Eliminators, LIQUI-NOMIXr Liquid/Liquid Separators, FIBER-BED Filters/Coalescers.

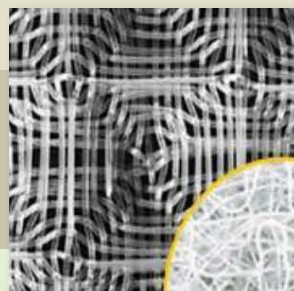
Contact at Symphos

Frederick H MUELLER / Senior Project Engineer

Tel : (305) 233-4249 ext 26

Address : 744 SW 1st Street Homestead, FL 33030 - USA

E-mail : fmueller@kimre.com or sales@kimre.com





KSB POMPES ET ROBINETTERIES

Foundation date

27/10/2008

Head quarters

Maroc

Turnover

20 762 594,84 MAD

Business Field

Vente de matériel mécanique, hydraulique, maintenance.

Market presence

-

Product(s) and Service(s)

Pompes, Robinetterie, Maintenance

Number of employees

26

Partners and Clients

OCP - Sonasid - Maghreb Steel - Amendis - Groupe Cosumar

Presentation

KSB Pompes et Robinetteries produit et commercialise des pompes, de la robinetterie, des systèmes et fournit les services associés. L'entreprise est leader sur le marché marocain des pompes, centrifuges, et parmi les leaders au niveau mondial.

Les produits KSB sont destinés au secteur du bâtiment, de l'industrie de l'eau, de l'énergie et des mines. Par ailleurs, ce groupe international propose des prestations de services étendus (réparation et maintenance).

Contact at Symphos

Yassine MELLOUK
Directeur Général

Tel : +212 669 58 87 95

Adress : Local N° 1 rue El Koutia Oukacha - Ain Sebaa Casablanca
- Maroc

E-mail : yassine.mellouk@ksb.com



M•LABBE

LABBE

Foundation date

1948

Head quarters

France

Turnover

10 M €

Business Field

Chaudronnerie inox et alliages nickel

Market presence

-

Product(s) and Service(s)

Équipements chaudrones en inox et alliages nickel

Number of employees

60

Partners and Clients

PRAYON - CLARIANT - YARA - FENCO - SNC LAVALIN

Presentation

M. LABBE est une société de chaudronnerie inox et alliages nickel spécialisée dans la fabrication d'équipements process tels que :

Condenseurs, bouilleurs, évaporateurs, échangeurs gaz-gaz (chaud, cuves sous pression, réacteurs, colonnes, échangeurs tubulaires, intermédiaire, froid), concentrateurs.

Contact at Symphos

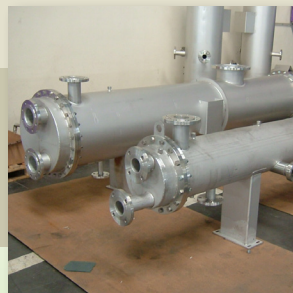
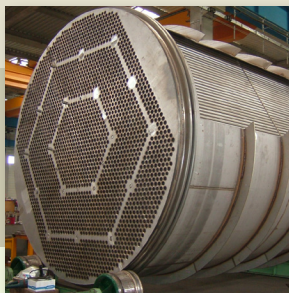
Thomas LABBE

Directeur général - ingénieur soudeur

Tel : +33 (0) 6 78 17 11 76

Adress : rue de l'industrie, 77220 tournan en brie - France

E-mail : thomas.labbe@labbe-france.fr





LECHLER FRANCE

Foundation date

11-01-1977

Head quarters

-

Turnover

-

Business Field

Industrie en général

Market presence

-

Product(s) and Service(s)

Buses et systèmes de pulvérisation

Number of employees

15 personnes

Partners and Clients

-

Presentation

LECHLER apporte la meilleure solution technique et une gamme très étendue de buses de pulvérisation dans la chimie. Nous apportons nos compétences et nos conseils dans :

Le lavage et le refroidissement des gaz, la condensation de vapeur, le lavage des bouilleurs de concentration d'acide phosphorique, l'enrobage des engrais, les séparateurs de gouttelettes, le dépoussiérage et la protection incendie.

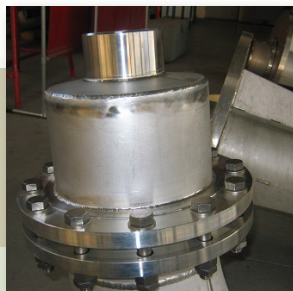
Contact at Symphos

Serge CORBEL
Technico-commercial Industrie

Tel : +212 682 93 40 95

Adress : 66-72 Rue Marceau - BAT Cap 2 93100 Montreuil
France - Maghreb - Suisse

E-mail : s.corbel@lechler.fr





LES ÉTABLISSEMENTS BERENGER - GROUPE PREMIUM

Foundation date

1927

Head quarters

Maroc

Turnover

Plus de 150 M MAD en 2012

Business Field

Mines & Carrières, Industrie et route

Product(s) and Service(s)

Distribution de biens d'équipement pour mines et carrières et route

Number of employees

Plus de 50 collaborateurs

Partners and Clients

Sandvik, MS, Ram environnement, FAYAT group, MANAGEM, etc

Presentation

Depuis plus de 80 ans, Ets Berenger connaissent un développement continu au fil des années pour devenir aujourd'hui le fournisseur leader sur le marché marocain des solutions aux compétences pluridisciplinaires dans les domaines de la construction, Route, l'environnement, la manutention aérienne et les mines et carrières, en commercialisant des marque d'une notoriété mondiale telle: SANDVIK, MS, RAM environnement, MARINI, ERMONT, BOMAG, SECMAIR et DEMAG.

Contact at Symphos

Atika RZIK
Responsable marketing

Tel : +212 522 63 37 69/82

Adress : Route nationale d'El Jadida KM 14, Commune rurale
Ouled Azouz 20 190 Casablanca - Maroc

E-mail : atika.rzik@premium.net.ma



LES EQUIPEMENTS INDUSTRIELS

Foundation date

1958

Head quarters

Maroc

Turnover

73 M MAD

Business Field

Industrie mines, chimique, cimenterie, sucre, pétrole et gaz

Product(s) and Service(s)

Moteur WEG et pompage

Number of employees

60

Partners and Clients

OCP - ONEP - ONEE - GIZ - SOGEA - FADESA - LYDEC - REDAL

Presentation

Lei Maroc et son partenaire WEG vous offrent des solutions globales dans tout process industriel. WEG est un constructeur de moteurs BT et HT échelonnant de 0.12 à 50000 Kw, de motoréducteurs, d'alternateurs et de transformateurs THT 300 MVA et de variateurs de vitesse BT/HT. Le groupe WEG 22000 collaborateurs et des usines réparties dans 12 pays.

A l'occasion de ce salon, WEG mettra en avant son offre motoréducteurs, ses systèmes WMagnet et WQuattro qui répondent à la classe de rendement IE4 (Super Premium), sa gamme de variateurs de vitesse CFW11 ainsi que ses moteurs asynchrones W22 de la classe IE1 à IE3.

Contact at Symphos

Nadia HAMRANI
Responsable Marketing

Tel : +212 522 24 11 51

Address : 256 BD Ba Hmad BP 2012 Casablanca - Maroc

E-mail : h.nadia@leimaroc.com



Foundation date	1985
Head quarters	Maroc
Turnover	9 M MAD
Business Field	Robinetterie industrielle
Market presence	-
Product(s) and Service(s)	Robinetterie industrielle
Number of employees	09
Partners and Clients	MECA INOX FRANCE / BURACCO / SAFI / GUICHON / ITT
Presentation	Importation et distribution de robinetterie industrielle: Robinet à boisseau sphérique, Vanne à papillon, vanne à membrane aseptique, vanne en matière plastique, Vanne de prise d'échantillon, Motorisation électrique et pneumatique.
Contact at Symphos	Azeddine HAMAL Responsable Commercial Tel : +33 1.78.47.80.27 Adress : 1, rue de la Croix des Maheux 95000 CERGY - France E-mail : a.hamal@meca-inox.com



MERSEN MAROC S.A.R.L.

Foundation date	1892
Head quarters	France
Turnover	60 M €
Business Field	Conception et fabrication d'équipements anticorrosion
Market presence	-
Product(s) and Service(s)	Echangeurs de chaleur en graphite, tuyauterie PTFE, agitateurs
Number of employees	250 personnes
Partners and Clients	Industries de la chimie, métallurgie et procédés industriels
Presentation	En France, Mersen conçoit et fabrique des échangeurs de chaleur en graphite ou carbure de silicium, des agitateurs, des plaques en tantale CL-Cad (technologie de claddage dé brevetée par Mersen), des colonnes en graphite ou en PTFE, de la tuyauterie en PTFE Mersen élabore, fabrique et livre clé en main des systèmes de production d'acide chlorhydrique.
Contact at Symphos	Mohamed JERID Directeur d'établissement Tel : +212 523 38 30 12 Adress : Route d'Oualida Km 10, Commune My Abdellah, BP135 Sidi Bouzid, El Jadida - Maroc E-mail : mohamed.jerid@mersen.com





MET-CHEM CANADA INC.

Foundation date

1969

Head quarters

Montréal, Québec, Canada

Turnover

-

Business Field

Mining and Mineral Processing

Market presence

Worldwide More than 30

Product(s) and Service(s)

Consultants in Mining and Mineral Processing

Number of employees

More than 100

Partners and Clients

ArcelorMittal, Goldcorp Inc, IAMGOLD Corporation, Osisko, Oceanic Iro

Presentation

Met-Chem is an international renowned consulting engineering firm established in 1969 to provide all phases of geology, mining, mineral processing and engineering services througho the world.
From its headquarters in Montreal, Met-Chem offers the mining industry professional expertise at every stage of the life cycle of mining, from exploration to mine closure.

Contact at Symphos

Guy NOISEUX
General Manager - Corporate Development

Tel : 514 288-5211 - Ext.: 212
Adress : 555, René-Lévesque Blvd. West, 3rd. Floor, Montréal
(Québec) H2Z 1B1 - Canada
E-mail : gnoiseux@met-chem.com





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METALCRAFT

METALCRAFT SERVICES OF TAMPA

Foundation date

1987

Head quarters

10706 North 46th Steet, Tampa Florida USA 33617

Turnover

-

Business Field

Construction / Manufacturing / Design

Market presence

USA, South America, Central America

Product(s) and Service(s)

Engineered Metal Component Designs / Plant Construction

Number of employees

80

Partners and Clients

PCS Phosphate, Mosaic, Agrium, Innophos, Simplot, CF Industries

Presentation

Metalcraft is a designer and fabricator of metal components serving general industry, specializing in construction and design of tilting pan filters and filter components. Our construction arm constructs and installs complete tilting pan filters or components. Metalcraft helps maintain customer filters performing downday maintenance, annual filter turnarounds and provides clothing services to its client base. Our people have forty years of experience in providing service and product to the phosphate industry.

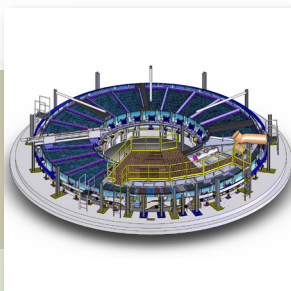
Contact at Symphos

Scott YEO
General Manager

Tel : (813) 558-8700

Address : 10706 North 46th Street, Tampa Florida, USA 33617

E-mail : s.yeo@metalcraftservices.com



METSO MINERALS INDUSTRIELS

Foundation date

01/07/1919

Head quarters

Afrique du Nord et Moyen-Orient

Turnover

266 M € en 2011

Business Field

Fournisseur d'équipements et solutions pour l'industrie minière

Product(s) and Service(s)

Broyeurs, concasseurs, cribles services et pieces associées

Number of employees

371

Partners and Clients

OCP, MANAGEM, Rio Tinto, BHP, SNIM

Presentation

Metso propose des solutions pour l'industrie minière et des granulats. Nos produits couvrent toute la chaîne de traitement : concassage, criblage, broyage fin, blindage de broyeur à boulet système de déchargement de wagons (cubuteur), pompes à pulpe, tuyauterie, caoutchouc. Metso est en mesure de vous offrir des services d'expertise tout au long de la durée de vie des équipements :

Pièces d'usure et de rechange d'origine pour toutes les marques servies par Metso - Contrats d'inspection, réparations, échanges standard - Stages de formation technique en nos usines ou sur site d'exploitation.

Contact at Symphos

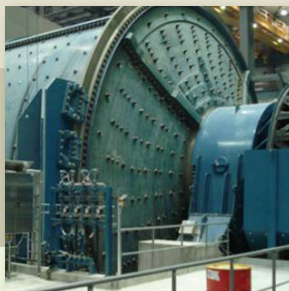
Benjamin GROHART

Responsable commercial Zone Afrique du Nord

Tel : +33 674 970568

Adress : 41, rue de la république - CS 61609 - 71009 MACON CEDEX

E-mail : benjamin.rohart@metso.cm





Endress+Hauser **EH**



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MPC - ENDRESS HAUSER

Foundation date	1953
Head quarters	France, représentant Maroc MPC
Turnover	1,6 MM €
Business Field	Tout secteur d'activité
Market presence	-
Product(s) and Service(s)	Instrumentation et regulation des procedes industriels
Number of employees	10 000
Partners and Clients	OCP, Groupe SNI, Centrale laitiere, Consumarr, Samir, Cimenterie
Presentation	Un des leaders mondiaux de l'instrumentation des procedes industriels, pression, debit, niveau
Contact at Symphos	Kamal JAIDI DG MPC Tel : +212 663 42 99 50 Adress : 3 rue du Rhin Hunningue - France E-mail : jaidi.mpc@menara.ma



NAQ GLOBAL COMPANIES

Foundation date

2006

Head quarters

Brazil

Turnover

50 M USD

Business Field

Fertilizer quality improvement

Market presence

Americas, North africa, Middle East & Asia

Product(s) and Service(s)

Anticaking, antidust for fertilizers, dust suppressors for sulphur and rock phosphate, defoamers, filtration aid, colouring agents, granulating aids, floatation agent.

Number of employees

250

Partners and Clients

MAJOR FERTILIZER PLANTS ACROSS THE WORLD.

Presentation

NAQ GLOBAL COMPANIES is a Multi National Organization lead by a technocrat and visionary - Mr. Aydhesh Mathur. Company provides latest technology eco-friendly products & expert technical services to major fertilizer plants. NAQ has its manufacturing facilities strategically located in Latin America, Middle East and in Asia to cater fertilizer plants across the world efficiently and economically. The products are tailor made to suit individual plant requirements. NAQ GLOBAL also design and provide efficient dosing system for the fertilizer plant for proper application of these speciality products.

Contact at Symphos

Prakash MATHUR
SR. General manager – Business development

Tel : +91 99 8304 0008 / +212 6 49 75 23 45

E-mail : biz.dev@naqglobal.com





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NEELAM AQUA & SPECIALITY CHEM LTD.

Foundation date

1980

Head quarters

India

Turnover

-

Business Field

Fertilizer Industries

Market presence

-

Product(s) and Service(s)

Fertilizer quality improvement chemicals

Number of employees

200

Partners and Clients

-

Presentation

Providing specialty chemicals for improving fertilizer quality across the globe. These chemicals include anti caking agents for fertilizers, granulation aid, coloring agents, defoamers, filtration aid, and micro nutrient binders.

Contact at Symphos

Mithlesh KUMAR MATHUR

Tel : 9829069545

Adress : Jaipur - India

E-mail : mkmathur@neelamaqua.com





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OMNIUM MAROCAIN INDUSTRIEL ET CHIMIQUE - OMIC

Foundation date

1954

Head quarters

Maroc

Turnover

24 M MAD

Business Field

Fabrication et commercialisation des Accessoires de Tir

Market presence

-

Product(s) and Service(s)

Fabrication et commercialisation des cordons détonnants, mèches de mineur, poudre fantasia, Mining

Number of employees

45

Partners and Clients

Office Chérifien des Phosphates - MANAGEM

Presentation

OMIC, établie depuis 1954 au Maroc, offre une large gamme d'accessoires de tir :
Cordeau détonant tous grammages, Mèche de mineurs gainée, poudre noire (fantasia).

Contact at Symphos

Driss MOUGA
Responsable Région Sud

Tel : +212 661 17 86 23

Adress : Compagnie Africaine des Explosifs S.A. - Maroc

E-mail : Groupecadex@cadex.ma



OUTOKUMPU VDM

Foundation date

-

Head quarters

Wergohl Germany

Turnover

-

Business Field

Nickel and Titanium Alloys producers

Market presence

Worldwide

Product(s) and Service(s)

Nickel Alloys, Titanium Alloys, Zirconium Alloys

Number of employees

1800

Partners and Clients

OCP, MERSEN, AREVA, BAYER, BASF, PRAYON

Presentation

Outokumpu VDM offers you a comprehensive range of nickel alloys, titanium and zinc alloys and worldwide service to meet your challenges. Our portfolio of high-performance materials includes Nickel Alloys, titanium and titanium Alloys, Special Stainless Steels, Zirconium and Cobalt based Alloys. Our materials are used in hot and highly corrosive environments- in chemical processing plants, the oil and gas industry and the energy sector, and of course, aerospace and electrical.

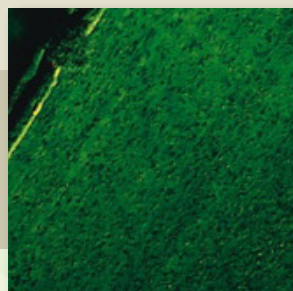
Contact at Symphos

Nicolas HOULLE
Market Manager

Tel : +33 141 390 422

Address : 81 boulevard Arago- Nanterre - France

E-mail : nicolas.houlle@outokumpu.com



Outotec

OUTOTEC OYJ

Foundation date

1910

Head quarters

ESPOO, FINLAND

Turnover

1,4 MM €

Business Field

Outotec is a technology company that designs and delivers tailored solutions

Market presence

Offices in 25 countries

Product(s) and Service(s)

Outotec provides leading technologies and services for the sustain

Number of employees

3900

Partners and Clients

-

Presentation

OUTOTEC provides leading technologies and services for the sustainable use of Earth's natural resources.



PHILADELPHIA MIXING SOLUTIONS, LTD.

Foundation date

-

Head quarters

1221 East Main Street Palmyra, PA 17078 USA

Turnover

-

Business Field

Mixing solutions

Market presence

Worldwide

Product(s) and Service(s)

Aerators, agitators, mixers, drives, impellers

Number of employees

150

Partners and Clients

-

Presentation

-

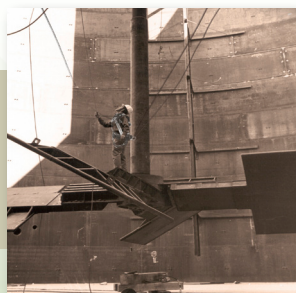
Contact at Symphos

Rui SOARES
Vice President, Global Projects Group

Tel : +1 717 832 2800

Address : 1221 East Main Street Palmyra PA 17078 USA

E-mail : nanderson@philamixers.com / rsoares@philamixers.com



POLYCORP LTD.

Foundation date

-

Head quarters

Toronto, Canada

Turnover

-

Business Field

Corrosion and Abrasion Protection

Market presence

Canada, United States, Mexico, Venesuela, Brazil, Israel, Morocco

Product(s) and Service(s)

Natural and synthetic rubber products

Number of employees

150

Partners and Clients

Mosaic, PCS, Innophos, CF Industries, Fertinal

Presentation

Polycorp is a global leader in the design and manufacture of rubber products for control of corrosion, abrasion, noise and vibration. Polycorp's Protective Linings Division has a full range of uncured natural and synthetic rubber lining materials for protecting assets such as tanks, vessels and processing equipment from corrosive or abrasive materials. Our products are supplied to a wide variety of customers in the chemical, industrial and mining sectors around the world.

Contact at Symphos

Dennis NOLAN
Manager, Protective Linings

Tel : 519 500 7003

Adress : 33 York Street, Elora, Ontario - Canada

E-mail : dnolan@poly-corp.com



PRAYON S.A.

Foundation date

2+/- 120 ans

Head quarters

Belgique

Turnover

815 M €

Business Field

Leader mondial dans le secteur des Phosphates alimentaires et tec

Market presence

-

Product(s) and Service(s)

Production et ventes de produits chimiques

Number of employees

+/- 1450

Partners and Clients

OCP à 50% et SRIW à 50%

Presentation

Riche d'une expérience industrielle de plus d'un siècle, Prayon est leader mondial dans le secteur des phosphates. Notre groupe propose une très large gamme de produits phosphatés et fluorés utilisés dans des applications alimentaires, des applications industrielles, dans les fertilisants et d'autres applications comme les produits pharmaceutiques.

Contact at Symphos

Dominique MARECHAL
Communication Manager

Tel : +32 4 273 94 86

Adress : Rue Joseph Wauters 144 à 4480 Engis - Belgique

E-mail : msablone@prayon.be



REMA TIP TOP NORD AFRIQUE

Foundation date

24/09/2010

Head quarters

Maroc

Turnover

10 M MAD

Business Field

Industrie des mines, chimie, cimenterie et centrale thermiques

Product(s) and Service(s)

Maintenance des convoyeurs à bandes, la protection contre l'usure

Number of employees

80

Partners and Clients

OCP, MANAGEM, HOLCIM MAROC

Presentation

REMA TIP TOP acteur majeur dans le monde pour la protection des installations industrielles contre l'abrasion et la corrosion. Spécialiste du caoutchouc depuis de nombreuses décennies, nous sommes fabricants et nous élaborons nos propres formulations d'élastomères en vue d'applications spécifiques. Nous proposons aussi des solutions complètes afin de lutter sur les installations industrielles contre le colmatage, l'usure par l'abrasion, la corrosion attaque chimique et l'usure prématurée des bandes transporteuses.

Contact at Symphos

Rachid OUCHAOU
Directeur commercial

Tel : +212 661 09 80 21

Adress : Route (R.S 121) de Jorf Lasfar Comm Moulay Abdellah BP 3535- El Jadida 24 000 - Maroc

E-mail : rouchaou@rema-tiptop.fr





The Drive & Control Company

Rexroth
Bosch Group

81

REXROTH BOSCH GROUP

Foundation date

1886

Head quarters

Maroc

Turnover

7 MM €

Business Field

Machinery Applications and Engineering

Market presence

-

Product(s) and Service(s)

Hydraulique Industriel&Mobile, Entraînements et commandes électriques

Number of employees

30000 Personnes

Partners and Clients

OCP, RENAULT, LAFARGE, MATIS, SOSIPO, SONASID, SONATRACH

Presentation

Grâce à ses innovations et sa technologie de pointe, une expérience internationale et un grand sens des responsabilités, Rexroth est à même de proposer les solutions Drive & Control les plus durables et les plus performantes sur le marché

Contact at Symphos

Hatim SAADAoui
North Africa Technical-sales Manager

Tel : +212 622 51 06 40

Address : 1100 Blvd El Qods Nearschore Park, Shore 14- 1^{er} Etage -
N° 101, Sidi Maarouf, Casablanca - Maroc

E-mail : hatim.saadaoui@ma.bosch.com



Riegonor


RIEGONOR

Foundation date

22/02/1993

Head quarters

Maroc

Turnover

47 M MAD

Business Field

Environnement, Travaux Publics, Hydrauliques et Industrielles

Market presence

-

Product(s) and Service(s)

Fourniture et Pose des Produits Géosynthétiques

Number of employees

45

Partners and Clients

Atarfil, Edilfloor, Tencate

Presentation

RIEGONOR assure la fourniture et pose de produits géosynthétiques pour l'imperméabilisation, le renforcement, le drainage et la stabilisation des sols à l'égard de : Géomembrane, Géosynthétique Bentonitique, Géotextile, Géocellule, Géocomposite de drainage et conduites.

Contact at Symphos

Francisco GONZALES
Directeur

Tel : +212 661 16 46 48

Adress : 122 Zone Industrielle Bir Rami Kenitra 14090 - Maroc

E-mail : riegonor@riegonor.com



ROTEX EUROPE LTD.

Foundation date

1834

Head quarters

Rotex Global, Cincinnati, USA

Turnover

-

Business Field

Minerals, plastics, chemicals, Food Fertilizer, wood product, Phosphate

Market presence

Morocco, Europe, Asia, North and South America

Product(s) and Service(s)

Screening equipments for dry separation

Number of employees

230

Partners and Clients

OCP, Jacobs, Nestlé, Uniliver, Technip, Eurochem

Presentation

Rotex is a leader in dry separation and screening machines. Main applications are fine screening application which required accurate separation with high efficiency. Rotex Screener offer horizontal installation + Gyratory motion which guaranty high screening performance.

Rotex is leader in supplying the fertilizer industry for screeners for phosphate base fertilizer : DAP, TSP, NPK... for primary screening with Hicline and polishing application with the Apex and Rotex, the MegatexXD complete the range for high capacity unit.

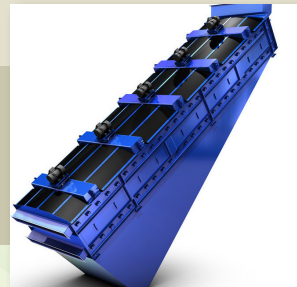
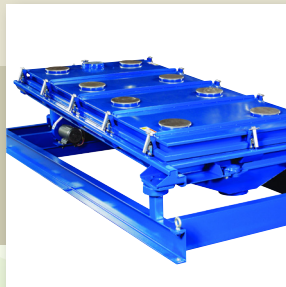
Contact at Symphos

Olivier THOUVARD
Sales Director

Tel : +33 607 505 236

Address : 29 avenue Lavoisier/1300 Wavre/ Belgium UK

E-mail : othouvard@rotex





RPA PROCESS SAS

Foundation date

2011

Head quarters

France

Turnover

17 M €

Business Field

Industrie

Market presence

-

Product(s) and Service(s)

Equipments de filtration et malaxage Industriel

Number of employees

40 personnes

Partners and Clients

-

Presentation

RPA Process (anciennement RPA Process Technologies) a été rachetée en 2011 par Monsieur Jamey via la holding JF Investment. Comme auparavant, la société se structure en deux activités distinctes : la filtration et le malaxage. Dans ces deux activités, les domaines d'applications sur lesquels RPA Process opère sont extrêmement variés, en passant aussi bien par la chimie que l'agro-alimentaire.

Contact at Symphos

Abdel MAOUI
Regional Sales Manager

Tel : +33(0) 1 56 83 83 83

Address : 18-22 rue d'Arras, 92000 Nanterre - France

E-mail : Abdel.maoui@rpaprocess.com



SAACKE

SAACKE BRÛLEURS INDUSTRIELS

Foundation date

1968

Head quarters

France

Turnover

10 M €

Business Field

Oil & Gas - Mines et carrières - Agroalimentaire - Chimie
- Energie - Matériaux de construction - Déchets -
Environnement

Product(s) and Service(s)

Brûleurs industriels/Générateurs d'air chaud/chaudières/
Incinérateurs de déchets/traitements de fumées/Sécheurs
industriels/Ingénierie/Audit efficacité énergétique et
environnemental/Service après vente/Maintenance/
Formation

Number of employees

34

Presentation

Saacke depuis 80 ans conçoit et installe dans le monde
entier, pour tous les secteurs de l'industrie et services des
installations clés en main; en assure la maintenance ainsi
que l'optimisation énergétique. Nos brûleurs, chambres de
combustion, unités de séchages, chaudières développés
par notre R&D permettent le respect des normes
environnementales avec des combustibles conventionnels
ou alternatifs.

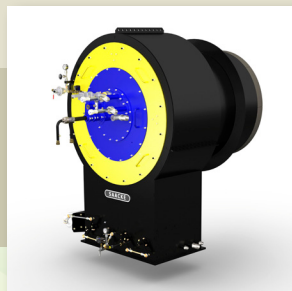
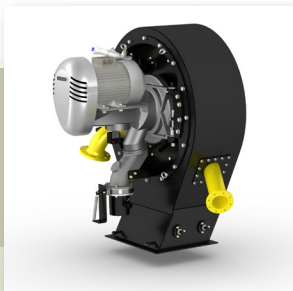
Contact at Symphos

Laurent MAUDHUY
Export Sales Manager

Tel : 01 48 48 20 54

Adress : 25-27 rue Marcel Dassault, 93140 BONDY - France

E-mail : l.maudhuy@saacke.fr



SANDVIK MATERIALS TECHNOLOGY

Foundation date

1862

Head quarters

Sweden

Turnover

2 MM €

Business Field

Special Stainless Steel for Fertilizer, Refinery, Petro Chemical Industry

Market presence

Europe, MENA, NAFTA, Asia, South America, Australia

Product(s) and Service(s)

Steel Manufacturer, Producer of Seamless Stainless Steel

Number of employees

9000

Partners and Clients

Stamicarbon, Shell, Exxon, ARAMCO, SABIC

Presentation

Sandvik Materials Technology is a world leader in materials technology and one of the leading manufacturer of Stainless Steel and High Nickel Alloys Tubes. Sandvik's first production was in 1862. In Northern Europe, Sandvik has the largest materials Research and Development.

Sandvik developed Sanicro 28, a special seamless stainless steel alloy used extensively in critical applications of phosphoric acid plants around the world. Sandvik established close cooperation with Ateliers de Chaudronnerie de Monplaisir, which do the thermal / mechanical design and fabrication to supply a complete evaporator in Sanicro 28 to replace the graphite.

Contact at Symphos

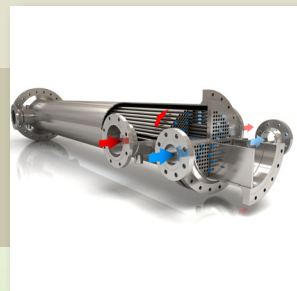
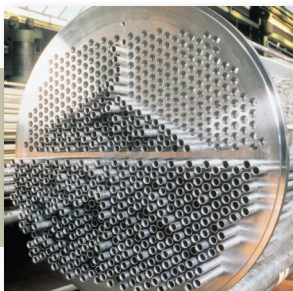
Khaled NABIH EL KAYAR

Assistant Sales Manager/Technical Marketing

Tel : 00971 4 364 7213

Address : Dubai

E-mail : khaled.elkayar@sandvik.com





SIEMENS

SIEMENS S.A.

Foundation date

1956

Head quarters

Maroc

Turnover

331 M MAD

Business Field

Energy, Industry, Infrastructure & Cities, Healthcare

Product(s) and Service(s)

Industry: THT, HT, MT, BT, Automatisme, Drive, Instrumentation, Mining

Number of employees

200

Partners and Clients

Industry: OCP, CEMENTS DU MAROC, RENAULT, ...

Presentation

Présent au Maroc depuis plus de 57 ans, Siemens, premier groupe européen de haute technologie, donne la priorité à l'innovation dans l'énergie, l'industrie, l'infrastructure urbaine et la santé. A travers ses 200 collaborateurs, Siemens Maroc participe pleinement au rayonnement économique marocain dans les domaines de pointe tels les systèmes et les solutions liés au développement urbain, à la métallurgie, à la production et distribution d'énergie, aux énergies renouvelables et aux équipements médicaux.

Contact at Symphos

Sonia ADNANE
Head of Communications North Africa

Tel : +212 6 61 21 17 75

Adress : Anfa Place, Centre d'Affaires "Est", Bd. de la Corniche,
20200 Casablanca - Maroc

E-mail : sonia.adnane@siemens.com

SINT-SYS

Foundation date

2001

Head quarters

Casablanca, Maroc

Turnover

5 M MAD

Business Field

Mining & Industrial

Product(s) and Service(s)

Equipments, Process Engineering, Technical support & Services :

Slurry Pumps, acid pumps, process pumps - Rubber, Polyurethane products & wear parts, Pipes, Tubes ... - Separators, Classificators, Decanters, Technologies & Equipments - Tire Protection Chains - Corrosion and abrasion resistance Alloys and solutions - Sulfuric Acid production equipments & processes - Phosphoric Acid Production equipments & processes - Heat exchangers - Mining Equipments (Crushing, Screening, Grinding, Flotation, Conditioning, Pumping,) - Installation, Maintenance, - Project Control and Management.

Number of employees

16

Partners and Clients

-

Contact at Symphos

A. Moumen CHAGRAOUI

Tel : + 212 661 31 51 65

E-mail : cmoumen@gmail.com



SISTEC

Foundation date

Juillet 1999

Head quarters

France, export vers Maroc, Algérie, Tunisie, Brésil, autres

Turnover

2,8 M €

Business Field

Contrôle de process, suivi des émissions, sécurité, environnement

Market presence

-

Product(s) and Service(s)

Vente d'analyseurs et de systèmes d'analyse process et émissions

Number of employees

11

Partners and Clients

BASF, Arkema, Solvay, Yara, GPN, Areva, APAVE, Arcelor.

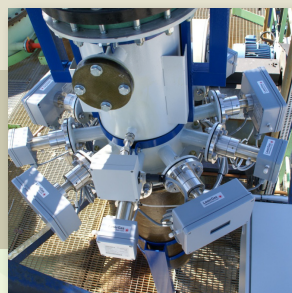
Presentation

SISTEC fournit, installe et assure la maintenance des analyseurs gaz et poussières insitu/extractif, portable/ fixe adaptés aux applications ATEX, SIL2, QAL1, labo/ process/émissions/environnement/sécurité, conçoit et réalise les systèmes clé-en-mains, La gamme, l'expérience, la réputation et le service de Sistec constituent une offre PREMIUM sur le marché de l'analyse de gaz.

Contact at Symphos

Paul MOUCHOT
Directeur Général

Tel : +33 (0)4 74 56 17 17
Adress : 1040 rue de Saint-Alban - 38200 Vienne - France
E-mail : pmouchot@sistec-instrumentation.com





SMDM

Foundation date

2008

Head quarters

Maroc

Turnover

30 M MAD

Business Field

IMPORTATION & DISTRIBUTION DE MATERIEL TP et Mines

Product(s) and Service(s)

SURFACE MINERS, CONCASSEURS,

Number of employees

15 Personnes

Partners and Clients

SGTM, COLAS, MAK YOL, SINTRAM, MOJAZINE, SEFIANI, HOUAR

Presentation

SMDM est une entreprise citoyenne marocaine, qui représente et propose des solutions alliant technologies de pointe et innovations, dans le domaine Routier, Minier et bientôt du Transport.

Son partenaire European Truck Factory (ETF Trucks) est une entreprise qui a l'ambition de révolutionner le domaine des transports miniers de grandes capacités dans le monde.

Les camions dont le concept et l'ingénierie sont à l'étude depuis plus de 8 ans sont à la veille de leur naissance, sur les pistes Brésiliennes du plus grand exploitant minier du monde, VALE.

Contact at Symphos

Amine LAHRICHI
Directeur General

Tel : +212 661 044 508

Address : Avenue Hassan 2, Bp 28 810, Mohammedia - Maroc

E-mail : lahrichi@smdm.ma





SNC • LAVALIN



1

SNC-LAVALIN INC.

Foundation date

11 April 1911

Head quarters

455 René-Lévesque Blvd. West, Montreal QC H2Z 1Z3, Canada

Turnover

7,2 MM CA\$

Business Field

Engineering and construction firm: EPC / EPCM / FS / Engineering Services

Market presence

Worldwide

Product(s) and Service(s)

Phosphate and Fertilizer Industry

Number of employees

34,000

Partners and Clients

-

Presentation

SNC-Lavalin provides engineering, procurement and construction services to the Fertilizer industry, in which it has a unique reputation with more than 35 years of global experience, a commitment to offer "one single source solution for the fertilizer industry"

In business since 1911, SNC-LAVALIN is currently working on projects in approximately 100 countries (34.000 employees).

Contact at Symphos

Svet VALKOV
Manager Fertilizers & Materials

Tel : + 32 2 475 659 919

Adress : Avenue Louise 251, box 16, 1050-Brussels - Belgium

E-mail : svet.valkov@snclavalin.com



SNF FLOERGER
SNF
Foundation date

1978

Head quarters

France

Turnover

1,8 G €

Business Field

Chimie

Market presence

-

Product(s) and Service(s)

Floculant, coagulant, collecteurs, moussants

Number of employees

3500

Partners and Clients

-

Presentation

SNF est le plus grand fabricant de polyacrylamide au monde avec une capacité de 650 kt/an dont le siège social est en France. .

Ces polymères hydrosolubles sont employés dans la fabrication d'eau potable, le traitement des eaux résiduaires, la récupération assistée du pétrole, les mines, le papier, l'agriculture, le textile et la cosmétique.

SNF fabrique des réactifs pour mines basés sur la chimie des xanthates et des thiophosphates

Contact at Symphos

Willy DURAND
Responsable Commercial Mines

Tel : +33 (0)6 08 25 72 26

Adress : ZAC de Mllieux, 42163 Andrézieux Cedex - France

E-mail : wdurand@snf.fr



SOLEX THERMAL SCIENCE INC.

Foundation date

March 1999

Head quarters

100, 3595- 144th Ave SE- CALGARY- AB- CANADA

Turnover

-

Business Field

Design manufacturing heat exchanges

Market presence

Global worldwide

Product(s) and Service(s)

Heat exchangers for bulk solids

Number of employees

40

Partners and Clients

-

Presentation

Solex thermal science specializes in the science of heating, cooling and drying bulk solids. Solex heater, cooler and dryer technologies are designed specifically for use with free flowing bulk solids, such as sugar, fertilizers, chemicals, plastics, bio solids and minerals. Solex technologies are subject to patents and patent applications in various jurisdictions around the world.

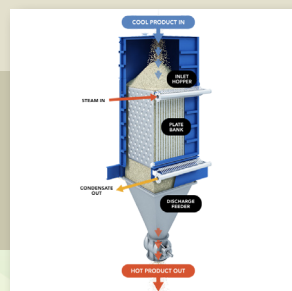
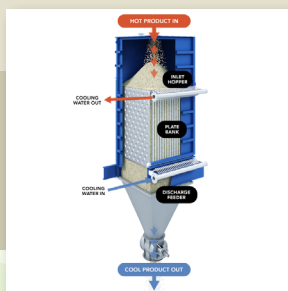
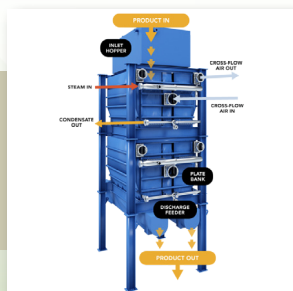
Contact at Symphos

Jean-Marc REICHLING
Sales Engineer

Tel : +32 (0) 478-77-52-97

Address : 100, 3595- 144th Ave SE- CALGARY- AB- CANADA

E-mail : jeanmarc.reichling@solexthermal.com





Spraying Systems Co.
Experts in Spray Technology

44

SPRAYING SYSTEMS CO.

Foundation date

1937

Head quarters

Wheaton, Illinois USA

Turnover

-

Business Field

Spray Technology

Market presence

12 manufacturing facilities and 85 sales offices worldwide

Product(s) and Service(s)

Nozzles, Injectors, Manifolds, Lances, Automated Systems, CFD

Number of employees

-

Partners and Clients

-

Presentation

Spraying Systems Co is the world 's leading manufacturer of industrial spray technology. We provide high quality spray nozzles, custom lancers/headers and turnkey spray systems to customers around the world in virtually every manufacturing industry. Using these products to optimize their spray performance saves many of our customers thousands of dollars each year.

Contact at Symphos

Adil MAHROUG
Sales & Engineering Manager

Tel : +212 660 14 29 82

Adress : 18-16 Rue de Grenoble, Plateau 1, Roche Noires,
Casablanca, Morocco 20290

E-mail : adil.mahroug@spray.com



SRM - GROUPE PREMIUM

Foundation date

1949

Head quarters

Maroc

Turnover

200 M MAD en 2012

Business Field

BTP, Industrie, Mines et carrières

Market presence

-

Product(s) and Service(s)

Distribution de bien d'équipements BTP

Number of employees

Plus de 50 collaborateurs

Partners and Clients

Sandvik, MS, Ram encironnement, FAYAT group, MANAGEM, etc

Presentation

Présente depuis 1949, SRM s'est spécialisée dans la représentation exclusive des marques learders mondiales telles : Liebherr, Putzmeister, Manitou, SDMO, John Deere, Bomaq, Gomaco afin de mettre à votre disposition le matériel le plus fiable ainsi qu'à l'expertise de notre support technique pour en tirer le maximum en matière de productivité et de rentabilité. En fonction de vos contraintes internet et externes, nous sommes à vos côtés pour vous conseiller sur la solution qu'il vous faut.

Contact at Symphos

Atika RZIK / Responsable marketing

Tel : +212 522 63 37 69/82

Adress : Route nationale d'El Jadida KM 14, Communce rurale
Ouled Azouz 20 190 Casablanca - Maroc

E-mail : atika.rzik@premium.net.ma



STOKVIS KOMATSU

STOKVIS

Foundation date

1950

Head quarters

Maroc

Turnover

615 M MAD

Business Field

Agricole, BTP, Climatisation, Manutention, Rayonnage, Lubrifiants

Market presence

-

Product(s) and Service(s)

Matériels BTP, Mines et Carrières, Groupes Electrogènes, Nettoyage

Number of employees

135 personnes

Partners and Clients

Same, Deutz, Claas, Komatsu, Dynapac, York/ OCP, ADN, Marsa

Presentation

Fondée en 1950, STOKVIS NORD AFRIQUE propose aux entreprises une gamme complète de matériels techniques dans plusieurs secteurs d'activités.

Première société à recevoir le label Entreprise de la CGEM, STOKVIS NORD AFRIQUE est aussi certifiée ISO 9001 et est cotée à la Bourse de Casablanca depuis 2007.

Contact at Symphos

Driss EL BOUTI

Directeur SAV et pièces de rechange

Tel : +212 663 70 63 54

Adress : Lot 17, 11 Zone Industrielle Oulad Salah BP 205 et 206 - 20180 Bouskoura - Maroc

E-mail : delbouti@stokvis.ma



STROC INDUSTRIE

Foundation date

1989

Head quarters

Maroc

Turnover

205 M MAD

Business Field

Industrie métallique (Ingénierie, études, chaudronnerie, charpente)

Product(s) and Service(s)

Construction en mode EPC d'unités de stockage de produits liquides

Number of employees

900

Partners and Clients

OCP, Westech, Ciments du Maroc, Somas, Polysius, SNAM, SNOP

Presentation

STROC Industrie est un acteur incontournable de l'ingénierie et de la construction CLE EN MAIN d'unités industrielles. Le respect de nos engagements et la satisfaction de nos clients sont nos objectifs primordiaux. Pour cela, nous mobilisons des équipes constituées d'ingénieurs et de techniciens expérimenté et passionnés par leur métier, afin de garantir le meilleur service à nos partenaires. Notre entreprise est certifiée ISO et OHSAS pour la qualité, la sécurité et le respect de l'environnement, et est labellisée CGEM en matière de RSE.

Contact at Symphos

Adil GUENNAI
Directeur du pôle Mines, Ciments et Chimie

Tel : +212 661 96 87 18

Adress : 4, rue des Tabors. Quartier Oasis. 20400, Casablanca - Maroc

E-mail : a.guennai@stroc.ma



TC MAROC

Foundation date

1979

Head quarters

Maroc

Turnover

45,6 M MAD

Business Field

Distribution et stockage de produits liés à la maîtrise des fluides

Market presence

-

Product(s) and Service(s)

Tubes, robinetterie, étanchéité, soudage, réseaux incendies

Number of employees

25

Partners and Clients

Trelleborg/ Kitz valves/ CLA-VAL/ Garlock... clients: OCP/ SAMIR/BUZZICHELLI/SNEP/DLM...

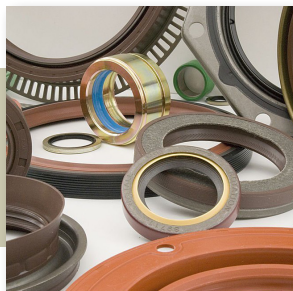
Presentation

TC MAROC créée en 1979, a pour vocation la distribution de tuyauteries, d'accessoires, de robinetteries et de spécialités industrielle.

Contact at Symphos

Gregory RENOUF
DIRECTEUR

Tel : +212 661 20 18 61
Adress : ZI BOUSKOURA BP 402 - Maroc
E-mail : gregory.renouf@tcmaroc.com





TEKFEN CONSTRUCTION



31

TEKFEN CONSTRUCTION AND INSTALLATION

Foundation date

1956

Head quarters

Istanbul

Turnover

1.128.853.000 US\$

Business Field

General Construction

Market presence

Morocco, Kazakhstan, Azerbaijan, Saudi Arabia, Qatar,
U.A.E., Turkmenistan, Turkey

Product(s) and Service(s)

General Construction

Number of employees

14500

Presentation

Tekfen Construction traces its roots to an engineering consulting company established in 1956. An uncompromising dedication to global quality standards in its business conduct has underscored the company's consistent growth and stability over five decades. Presently, Tekfen Construction, as an affiliate of Tekfen Holding, is active with major accomplishments in Turkey, the Middle East, North Africa, Caucasia&Central Asia, East&Central Europe, and performs wide range of projects such as pipeline, plant, energy, tankage, civil, motorway, terminal, housing projects.

Contact at Symphos

Özlem Erkinçoğlu
PR Chief

Tel : +902123593582

Adress : Tekfen Tower, Büyükdere Cad. No : 209, 4. Levent, Istanbul
- Turkey

E-mail : ozlemg@tekfen.com.tr

**TETRA TECH****Foundation date**

1966

Head quarters

Siège aux Etats-Unis (Pasadena - Californie), 330 places d'affaires à travers le monde

Turnover

2,7 MM US\$ (Année fiscale 2012)

Business Field

Eau, environnement, énergie, infrastructure, ressources naturelles

Product(s) and Service(s)

Génie-conseils, gestion de programmes et de construction

Number of employees

14 000

Partners and Clients

US Navy, US Army, Rio Tinto Alcan, USAID, Ministère des transports

Presentation

Tetra Tech est un leader de premier plan qui fournit des services dans les domaines du génie-conseils, de la gestion de programmes, de la gestion de la construction et des services techniques à l'échelle mondiale. La société contribue aux projets de clients des secteurs gouvernemental et commercial en fournissant des solutions innovantes axées sur les marchés de l'eau, l'environnement, l'énergie, les infrastructures et les ressources naturelles. Forte de plus de 14 000 employés dans le monde entier, l'expertise de Tetra Tech porte sur le cycle de vie complet de vos projets.

Contact at SymphosKhalid DAHER
Développement d'Affaire

Tel : 514-299-9045

Address : 5100 rue Sherbrooke est, bureau 900, Montreal QC, H1V 3R9 - Canada

E-mail : khalid.daher@bpr.ca



ThyssenKrupp
Resource Technologies



THYSSENKRUPP RESOURCE TECHNOLOGIES GMBH

Foundation date

-

Head quarters

-

Turnover

-

Business Field

-

Market presence

-

Product(s) and Service(s)

-

Number of employees

> 5500 Employees

Partners and Clients

-

Presentation

ThyssenKrupp Resource Technologies is a leading international supplier of mining plants and cement plants and innovative solutions, for the mining and handling of raw materials and minerals. Our equipment portfolio encompasses a comprehensive range of technologies for the phosphate processing industry for mining, crushing and screening materials handling comminution & separation, drying @ pyro processing, sampling and laboratory automation systems.

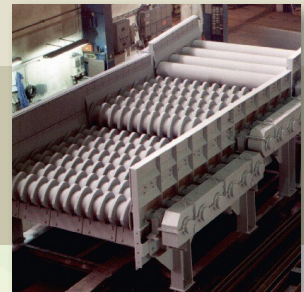
Contact at Symphos

Sandra ROMBACH
Team Global Service

Tel : +49 201 828 4531

Adress : ThyssenKrupp Fordertechnik, GmbH, ThyssenKrupp Allee
1 45143 Essen - Germany

E-mail : sandra.rombach@thyssenkrupp.com



TOMRA SORTING GMBH

Foundation date

1996

Head quarters

-

Turnover

-

Business Field

Sensor-based sorting

Market presence

Over 80 countries worldwide

Product(s) and Service(s)

Sensor-based sorting technology

Number of employees

800

Partners and Clients

-

Presentation

Sensor-based Ore-Sorting technology for the Mineral Processing Industry. A more efficient way to process global resources. TOMRA Sorting Solutions/ Mining previously known as Commad as Ultrasort, provides proven sensor-based sorting technology for efficient material separation in various mineral and ore application such as in the processing of gold, coal, diamonds.

Contact at Symphos

Geoffrey MADDERTON
Sales and Project Manager

Tel : +49 410318880

Address : Otto-Hahn-Strasse 6, 56218 Muelheim-Kaerlich - Germany

E-mail : geoffrey.madderton@tomra.com



Tractafric
equipment


TRACTAFRIC EQUIPMENT MAROC

Foundation date

1992

Head quarters

Maroc

Turnover

900 M MAD

Business Field

Mining equipment

Market presence

-

Product(s) and Service(s)

CATERPILLAR

Number of employees

280

Partners and Clients

Groupe OCP

Presentation

Representation au Maroc du constructeur CATERPILLAR, le leader mondial des machines BTP, carrières à Mines. Vente et service après vente des équipes en CAT- 6 agences: Marrakech, Agadir TP, Agadir marine, Oujda & Meknès.

Contact at Symphos

Said MAZOUZ
Chef département Mines et carrières

Tel : +212 661 47 14 54
E-mail : said.mazouz@tractafric.ma



TRANSPORTS MAROCAINS

Foundation date

1960

Head quarters

Maroc

Turnover

172 M MAD

Business Field

Transport

Market presence

-

Product(s) and Service(s)

Affrètement, consignation de navire

Number of employees

750

Partners and Clients

-

Presentation

Expérimenté et qualifié, nous vous proposons la meilleure solution pour vos transports en vrac, matériel de projet d'investissement et toutes marchandises exceptionnelles, notamment hautes et Lourdes.

En tant que commissionnaire de transport et courtier d'affrètement, nous planifions l'ensemble du transport "de bout en bout" et vous apportons une logistique complète, don't les opérations portuaires et la mise en place des moyens effectifs de transport, de manutention et d'entreposage jusque la livraison sur site.

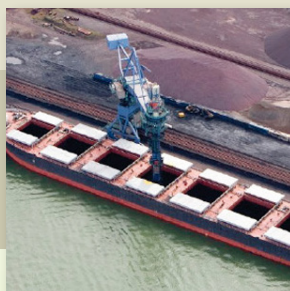
Contact at Symphos

Abdelaziz MANTRACH
Directeur Général

Tel : +212 522 54 66 33

Adress : 5, bd Abdellah Ben Yacine - 20300 - Casablanca - Maroc

E-mail : a.mantrach@transmar.co.ma





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VERMEER CORPORATION

Foundation date

1948

Head quarters

Pella, Iowa, USA

Turnover

-

Business Field

Construction Equipment

Market presence

Worldwide

Product(s) and Service(s)

Precision Surface Mining and Trenching Equipment

Number of employees

3000

Partners and Clients

Uncountable

Presentation

Vermeer Corporation is a worldwide market leader in Surface Mining, Trenching, Horizontal Directional Drilling, Environmental and agricultural Equipment. The head quarters are based in Pella, Iowa USA. Vermeer markets theirs equipment via a worldwide dealer network supplying equipment and after sales including service, spare parts and advise. Our independent dealer network is supported by 3 regional factory offices based in the Netherlands, Brazil and Singapore to support our customers and dealers worldwide.

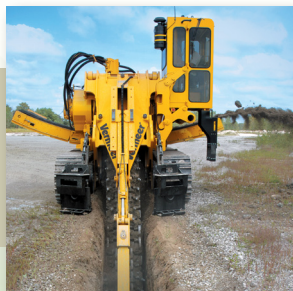
Contact at Symphos

Stephan OPPELAAR
Applications Engineer

Tel : + 31 6 204 12804

Adress : Nijverheidsstraat 20, 4458AV's -Heer Arendskerke, The Netherlands - The Netherlands

E-mail : soppelaar@vermeer.com



WEIR MINERALS EUROPE LIMITED

Foundation date

120 years

Head quarters

Halifax Road, Todmarden, Lancashire, OL145RT

Turnover

143 M US\$

Business Field

Engineering

Market presence

Europe

Product(s) and Service(s)

Commissioning, Service Work On Site, Product Rebuilds, Service Exchange, Rental Pumps, Rubber Linings, Rubber Hoses, Warranty / Customer Complaints, Product Training, Service Agreements / Contracts

Number of employees

-

Partners and Clients

-

Presentation

Weir Minerals Europe Limited is a specialist in providing engineering solutions to critical wear applications in the minerals aggregates, coal power and general industrial sectors, with manufacturing, sales and service capability across Europe and North Africa. The Weir Minerals portfolio centers on critical processes in our customers' operations and our products and brands are recognized and trusted globally.

Contact at Symphos

Bouchra MOUTI / Regional Manager

Tel : +212 522 99 14 82

Adress : Weir Minerals North Africa, 19, Boulevard Casablanca, 20180 - Morocco

E-mail : b.mouti@weirminerals-na.com



WENGFU (GROUP) CO., LTD.

Foundation date

1991

Head quarters

No 57, Shinan road, Guiyang 550002, Guizhou Province, China

Turnover

5 MM US\$

Business Field

Phosphate Chemical

Market presence

China, and International Markets

Product(s) and Service(s)

Mining/Beneficiation, Chemical Production and Engineering Contracting.

Number of employees

Over 4,500

Partners and Clients

-

Presentation

Wengfu (Group) Co., Ltd is the only large China's state-owned enterprise having 4 production complexes and over 21 subsidiaries with Integrated Engineering Technologies in: Phosphate Mining and Beneficiation, Compound Fertilisers, Phosphate Chemicals, Fluorine and Iodine Chemicals, Research for Development (R4D), Waste Management and Utilisation, Building and Construction, Procurement and Commissioning Support, International Trade and Engineering Contracting Services.

Contact at Symphos

Osagie SYLVESTER AIGBE
Project Management Consultant

Tel : +86-5526128 / +86-15285027447

Adress : No 57, Shinan road, Guiyang 550002, Guizhou Province - China

E-mail : wfgroup@wengfu.cn

XOL AUTOMATION

Foundation date

2008

Turnover

5 M US\$

Business Field

Engineering Services

Market presence

MENA region

Product(s) and Service(s)

Air classifiers/Density Separators - Bucket Elevators - Diverter Valves/Slide Gates - Feeders/Conveyors - Particle Size Analyzers - Pneumatic Conveying Systems - Screener/Separators - Training - Technical Seminars - Troubleshooting & Repair - Startup Assistance - Systems Integration - Machine Upgrades - Engineering & Feasibility Studies

Number of employees

10

Partners and Clients

Kice Industries, Inc. - Rotex Global, LLC - Vortex® Valves

Presentation

XOL Automation is the leading engineering company specialized in the bulk handling and processing industry. Whether you are looking to upgrade existing machines or buy new ones, XOL Automation brings you the latest equipment from the world's leading brands to serve your needs. This equipment, along with our best-of-class engineering practices, will help you improve productivity and maximize your profitability.

Contact at Symphos

Marcel GEORGES HAGE
Chairman

Tel : +961 1 891844

Address : Dedeyan Center 7th floor - Nahr El Mot - El Metn - Lebanon

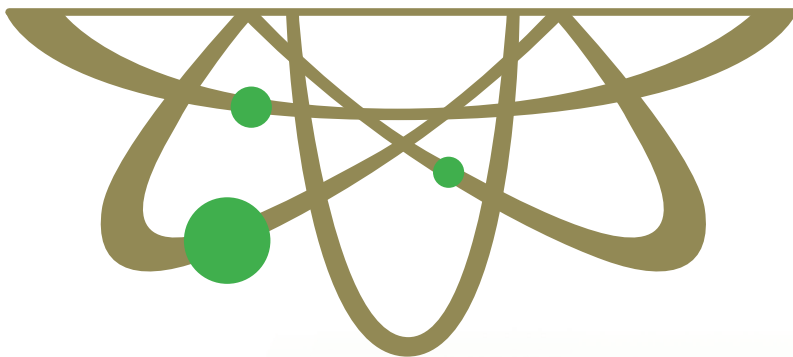
E-mail : mhage@xolautomation.com







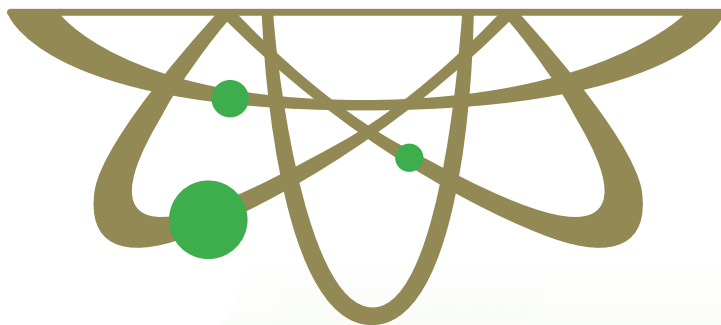
SYMPHOS 2013 offers a space for up to 3450 **B-to-B meetings**. 5 days of **targeted professional meetings** are scheduled with **up to 30 business meetings for each participant**. This will allow participants to initiate or develop their relationships and direct contact with their current and future partners, within a favourable environment for networking.







LIST OF PARTICIPANTS





ATTENDEE

Berrada	Mohamed Amine	2ICM
Achhoubi	Youssef	ABB
Tharwat	Khaled	Abu Zaabal Fertilzers & Chemicals Co.
Unger	Skip	Acid Piping Technology
Afrah	Abdelouahed	ADS Electricité s.a.r.l
Gasse	Damien	Afrex Geoservices Ltd
Sicot	Benoit	Afrex Geoservices Ltd
Salki	Mohammed	AkzoNobel
Raji	Adil	AkzoNobel
Lazrak	Chakib	AkzoNobel
Norén	Bertil	AkzoNobel
Fernandes	Nilson	ANGLO AMERICAN BRASIL LTDA
Mokhtari	Hamid	AREVA MINES - SEPA
El Adnani	Zakaria	ATLAS CIT
Kabbaj	Md. Chakib	ATLAS CIT
Manin	Daniel	Atlas Copco Drilling Solutions
Bel Gharbia	Faouzi	ATLAS COPCO MAROC
El Kanbi	Ali	ATLAS COPCO MAROC
Morgan	Julianne	AUMUND France S.A.R.L.
Roetgering	Ad	BASF
Van Dorland	Job	BASF
Rami	Mounia	BASF MAROC S.A.
Claur	Jaume	BASF MAROC S.A.
Moutalibi	Adil	BASF MAROC S.A.
Hensel	Dirk	BASF SE
Sefrioui	Tahar	Ben M sik Caoutchouc
Parsons	Michael	Blair Rubber Company
Boufous	Yacine	BOSCH REXROTH SAS.
Gerwien	Robert	Bray Controls
Hilal	Anas	CCIC
Birken	Isabelle	CECA
Van Quathem	Luc	CECA-ARKEMA



Cote	Gerard	Chimie ParisTech
Fassel	Jean-Christophe	Claudius Peters Technologies SAS
Chalhi	Mohammed	CMD GEARS
Alexandre	Daniel	CMD GEARS
Putzeys	Stephane	Cockerill, Maintenance & Ingenierie
Indo	Franck	COFIREP
Bilal	Mohamed	COLAS
Lahmamsi	Faycal	COLAS
Larche	Lionel	COLAS
Le Borgne	Jean-Yves	COLAS
Grossi	Vincent	COLAS
Arafat	Ghosheh	Consultant
Chaouni	Wafaa	CPPE
Strickroth	Dr. Ing. Alain	CPPE
Persona	Alberto	CRU International
Ezzarhouni	Jaouad	Cummins Inc.
Teoman	Ahmet	Cytec Industries Inc
Ravishankar	Sa	Cytec Industries Inc
Ballentine	Franklyn	Cytec Industries Inc
Taylor	Matthew	Cytec Industries Inc
Trefalt	Jerome	Delkor Global
James	Barry	DuPont Sustainable Solutions
Ciurana prat	Francisco javier	DuPont Sustainable Solutions
Pham Minh	Doan	Ecole des Mines d'Albi
Oukhouya	Tarek	ECTM
Richardson	Giles	Emerson
Sidqui	Khalid	Emerson
Bouassem	Karim	Emerson
Rodet	Nicolas	Ensival Moret
Lua	Franck	ENSIVAL MORET / FLOWROX
Roger	Michel-andré	ENSIVAL MORET / FLOWROX
Wisniewski	Tom	EUROPEAN FILTER CORPORATION
Ouakibi	Omar	Faculté des Sciences et Techniques Mar-rakech
Hervieu	Pascal	Fertiprocess



Maréchal	Jean francois	Fertiprocess
Bruniau	Emmanuel	Fertiprocess
El Mouni	Youssef	Fertiprocess
Maréchal	Sébastien	Fertiprocess
Gontard	Patrice	Fertiprocess
Hamdouni	Mounir	FIVES FCB
Zejli	Az-eddine	Flanders
Esnault	Bernard	Flanders
Halet	Dirk	Flanders Knowledge Center Water
Greaux	Frederic	FLOTTWEG FRANCE SAS
Hyttinen	Heikki	FLOWROX
Sims	Simon	FLOWROX
Holfert	Jean christophe	FLSmidth SAS
Oberroither	Roland	FLSmidth SAS
Vignando	Stefano	FLSmidth SAS
Laraqui	Tajaddine	FLSmidth SAS
Dubrulle	Thomas	FLSmidth SAS
Haffar	Riad - anthony	FLUOROSEAL
El Alami	Said	FORTRADE
El Alami	Fouad	FORTRADE
Crespon	Arnaud	FXL
Aitounejjar	Kamal	General Electric
Cros	Pascal	General Electric
Amghirida	Mohamed	General Electric International
Fredj	Touffik	General Electric International
Hadjaji	Sebti	General Electric International
El abbas	Moustafa	General Electric International
Kabbaj	Anas	General Electric International
Reda	Talbi	General Electric International
Laurent	Vallet	General Electric International
Kennedy	Dennis	Georgia-Pacific
Allen	Rob	GEOVIA
Lagouiti	Saad	Groupe premium
Chekkar	Driss	Groupe premium
Ennasihi	Jawad	Groupe premium



Bobos	Adrian	Groupe premium
Vu	Souraya	Groupe premium
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Casper Vittrup	Frandsen	HALDOR TOPSOE S/A
Zeisel	Marcus	Hazemag Maroc
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El Azrak	Adil	HLD DISTRIBUTION
Tahiri	Fadoua	HLD Distribution /LEICA Geosystems
Rubio Garcia	Javier	IMASA INGENIERIA Y PROYECTOS SA
Garcia Rodriguez	Javier	IMASA INGENIERIA Y PROYECTOS SA
Estors	Pierre	INDUSTEEL ARCELORMITTAL GROUP
Dr.Pradt	Dietrich	INDUSTRIEVERBAND AGRAR (IVA)
Bianchi-Baker	Monica	Integer Research
Bentbib	Karim fouad	INTERMATIERES Group
Harjam	Bouchaib	INTERMATIERES Group
Youssefane	Georges	IREM France
Hamdi	Hassan	Jacobs Engineering SA (JESA)
Esber	Bitar	Jacobs Engineering SA (JESA)
El Mouatassim	Boualam	Jacobs Engineering SA (JESA)
Dupire	Francois	Jacobs Engineering SA (JESA)
Schanze	Tom	Jacobs Engineering SA (JESA)
Bensimmou	Mohamed	Jacobs Engineering SA (JESA)
Ponder	Donna	Jacobs Engineering SA (JESA)
Griffin	Curtis	Jacobs Engineering SA (JESA)
Nissen	Bob	Jacobs Engineering SA (JESA)
Atallah	Lina	Jacobs Engineering SA (JESA)
Riaza	Joan Antoni	KAO Corporation S.A.
Fossas Felip	Francisco Asis	KAO Corporation S.A.
Giménez García	Samuel	KAO Corporation S.A.



Buehring	Daniel	Kimre, Inc.
Bellamine	Salma	KSB
Fournier	Philippe	LABBE
Doumet	Antoine	LE BANON CHEMICALS
Aoun	Antoine	LE BANON CHEMICALS
Nineuil	Guy	LE BANON CHEMICALS
Matta	Simon	LE BANON CHEMICALS
Drago	Jean Andre	LECHLER FRANCE
Quaning	Seth	Leica Geosystem- Mining
Farissi	Rachid	LES EQUIPEMENTS INDUSTRIELS
Hamrani	Nadia	LES EQUIPEMENTS INDUSTRIELS
Assiri	Tariq	Ma'aden
Al Ajmi	Abdullah	Maaden Phosphate Company
Barakate	Mohamed	MANAGEM
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Dye	Chris	MOSAIC



Ball	Brian	MOSAIC
Singletary	Vance	MOSAIC
Myers	Thomas	MOSAIC
Kucera	Paul	MOSAIC
Glories	Jean Philippe	MPC - ENDRESS HAUSER
El Bennissi	Abdessamad	MPC - ENDRESS HAUSER
Pouard	Julien	MPC - ENDRESS HAUSER
Bouzian	Jalal	MPC - ENDRESS HAUSER
Mathur	Avdhesh	NAQ GLOBAL COMPANIES
Mathur	Varun	NAQ GLOBAL COMPANIES
Dias	Fernanda	NAQ GLOBAL COMPANIES
Mathur	Devika	NAQ GLOBAL COMPANIES
Lenain	Emmanuel	OIS MOBILE SPRL
Osokin	Andrey	OJSC PhosAgro-Cherepovets
Elin	Yaroslav	OJSC PhosAgro-Cherepovets
Benlamaalam	Mohamed	OMCE (Omnium Maghrébin des conduit d'eau)
Bouziane	El Mehdi	OMCE (Omnium Maghrébin des conduit d'eau)
Rjaibi	Mondher	Outotec
Spourdalakis	Mike	Outotec canada
Hermann	Ludwig	Outotec GmbH
Lequien	Evelyne	OUTREMER
Soares	Riu	Philadelphia Mixing Solutions, Ltd.
Taouani	Hassan	PLUS TRADE
Mcphee	Rob	Polycorp Ltd.
Fati	Dorina	PRAYON S.A
Leruite	Audrey	PRAYON S.A
Martin	André	PRAYON S.A
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Yakov	Kahalon	Rotem Amfert Negev Ltd



Assaf	Naveh	Rotem Amfert Negev Ltd
Nitzan	Moshe	Rotem Amfert Negev Ltd
Houtteville	Martial	RPA PROCESS
Jamey	Michel	RPA PROCESS
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Errafai	Mohamed	SAACKE
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Mouhssim	Redouane	SEPROB
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Wang	Jiacai	Sichuan Chanhen Chemical Corporation
Zhang	Jingwei	Sichuan Chanhen Chemical Corporation
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Sbiti	Ikbal	Siemens
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Siminovich	Coral	SNC-Lavalin
Alamo	Jose	SNC-Lavalin
Ratnani	Kébir	SNC-Lavalin International Inc.
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Habran	Cédric	SNC-LAVALIN sa/nv
Olivier	Quentin	SNC-LAVALIN sa/nv
Tassin	Patrick	SNF
Taieb	Samir	Société Chimique ALKIMIA
Hbaieb	Mounir	Société Chimique ALKIMIA
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Darsy	Nathanelle	SOLIOS ENVIRONNEMENT SA



Mausset	Pascal	SOLIOS ENVIRONNEMENT SA
Fleckenstein	François	Spraying Systems Africa
Hamid	Sana	Spraying Systems Morocco
Hammami	Firas	Spraying Systems Tunisia
Williams	James	SRK Consulting (UK)
Boujenane	Khalid	TC Maroc
Colombo	Luca	TC Maroc
Dumont	Stéphane	TC Maroc
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Mantrach	Abdelaziz	TRANSPORTS MAROCAINS
Mansouri	Taoufik	TUNISIAN MINING SERVICES
Mansouri	Kais	TUNISIAN MINING SERVICES
Mahari	Mohamed tahar	TUNISIAN MINING SERVICES
Cooke	Bruce	Weir Minerals
Karaki	Marwan	Weir Minerals - Lewis Pumps



Black	Kenneth L.	Weir Minerals - Lewis Pumps
Elliott	Robert D.	Weir Minerals - Lewis Pumps
Rochd	Khalid	WEIR MINERALS LEWIS PUMPS
Aigbe	Osagie Sylvester	Wengfu (Group) Co., Ltd.
Gaspar	Abilio	WesTech Engineering Inc.
Sleiman	Benjamin	XOL Automation
Riponiemi	Marko	Yara

TECHNICAL COMMITTEE

Azaroual	Mohamed	BRMG
Chaouki	Jamal	Ecole Polytechnique de Montreal
El Asri	Mohammed	faculté des sciences, Fès
Bourass	Abdelkader	Freelance
Bih	Lahcen	FST- Errachidia
Kabbabi	Abdelhak	OCP SA
El Asri	Said	OCP SA
Belghiti Alaoui	Mohamed	OCP SA
Alouani	Abdelkader	OCP SA
Nassir	Ahmed	OCP SA
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Asri	Mansour	OCP SA - IDRV
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Aderdour	Farid	OCP SA
Afkir	Jamal	OCP SA
Aggadi	Hicham	OCP SA
Aghenda	Abdeljalil	OCP SA



Ainane	Younes	OCP SA
Ait Hssaine	Idir	OCP SA
Ait Khouya	Jamal	OCP SA
Ait Lhakem	Khalid	OCP SA
Ait Ouazzou	Hassan	OCP SA
Aitlamir	Aziza	OCP SA
Ajim	Noureddine	OCP SA
Akhaiat	Hanane	OCP SA
Akonade	Mokhtar	OCP SA
Allaou	Ahmed	OCP SA
Alouani	Yassine	OCP SA
Amalik	Mohamed	OCP SA
Amalik	Jamal	OCP SA
Ameziane	Marouane	OCP SA
Amharech	Jaouad	OCP SA
Amraouza	Omar	OCP SA
Ankrim	Mustapha	OCP SA
Anyanya	Noureddine	OCP SA
Aouad	Mounia	OCP SA
Aqid	Youssef	OCP SA
Arrach	Aziz	OCP SA
Arrassen	Marwane	OCP SA
Asmane	Abdelhakim	OCP SA
Assoud	Abderrahim	OCP SA
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Azhari	Mohammed	OCP SA
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Zeroual	Youssef	OCP SA
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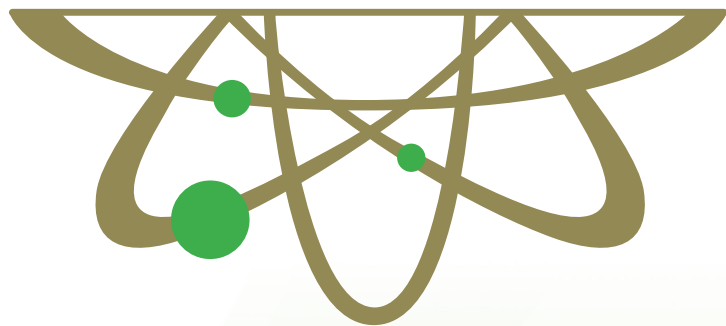
ORGANIZER

Amalhay	Mohamed	OCP SA
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MEDIA PARTNERS





BCINSIGHT LTD

Foundation date

2007

Head quarters

London, England

Turnover

-

Business Field

Publishing

Market presence

International

Product(s) and Service(s)

Magazines / Directories / online facilities / Plant data base

Number of employees

7

Partners and Clients

-

Presentation

BCInsight is a totally independent private publishing company providing analysis, comment and statistics on the world-wide production, trade, transportation, handling and consumption of fertilizers, fertilizer raw materials, sulphur and certain other minerals and chemicals. The company publishes 3 regular titles, Sulphur, Nitrogen+Syngas and Fertilizer International plus two directories, Fertilizer Industry Directory and Sulphur Industry Directory.

Contact at Symphos

Mark EVANS

Director/Editor Fertilizer International magazine

Tel : + 44 2077932567

Address : Southbank House, Black Prince Road, London SE1 7 SJ - UK

E-mail : mark.evans@bcinsight.com





ELSEVIER



41

ELSEVIER

Foundation date

1880

Head quarters

Radarweg 29, Amsterdam, 1043 NX, The Netherlands

Turnover

-

Business Field

Scientific publishing

Market presence

Global

Product(s) and Service(s)

Scientific books, journals and online products

Number of employees

7000

Partners and Clients

-

Presentation

Elsevier develops online information solutions that help professionals achieve better outcomes. We publish around 2,000 journals and close to 20,000 books and major reference works covering all areas of science including chemical engineering, chemistry, environmental science and energy. We published selected papers from SYMPHOS 2011 in our online journal, Procedia Engineering. Our content is available online at www.sciencedirect.com

Contact at Symphos

Dean EASTBURY
Executive Publisher

Tel : +44 778 992 0699

Adress : Elsevier, The Boulevard, Langford Lane, Kidlington, OXON
OX5 1GB - UK

E-mail : d.eastbury@elsevier.com

INDUSTRIAL MINERALS

Foundation date

October 1967

Head quarters

London, United Kingdom

Turnover

Confidential

Business Field

Publishing and Online Media

Market presence

Global

Product(s) and Service(s)

News, Data and Research on the industrial minerals sector

Number of employees

20

Partners and Clients

-

Presentation

Since 1967, Industrial Minerals has been known for its market-leading articles on non-metallic

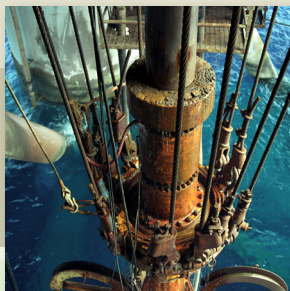
Contact at Symphos

Ainsley DOBSON
Marketing Executive

Tel : 07741120265

Address : Euromony Institutional Investor, Playhouse Yard, London,
United Kingdom, EC4V - UK

E-mail : adobson@indmin.com





Sulfuric Acid T O D A Y

41

SULFURIC ACID TODAY MAGAZINE

Foundation date

September 1994

Head quarters

Covington, Louisiana (USA)

Turnover

-

Business Field

Publishing & Marketing

Market presence

International

Product(s) and Service(s)

Magazine & Sulfuric Acid Conference

Number of employees

5

Partners and Clients

-

Presentation

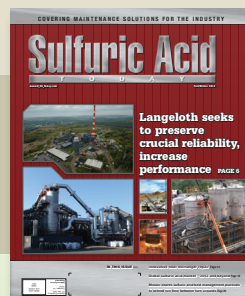
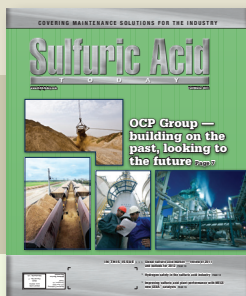
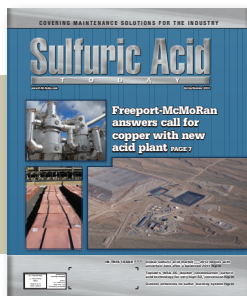
Sulfuric Acid Today magazine is an international trade publication covering sulfuric acid maintenance & technology for the fertilizer, mining/smelting, regeneration & manufacturing industries. The bi-annual publication covers a vast array of industry-related topics such as industry and product news, best practices, lessons learned, and the latest technology available. Sulfuric Acid Today also hosts a biennial sulfuric acid conference in the United States and Australia.

Contact at Symphos

Tel : +1 985 807 3868

Adress : PO Box 3502, Convington, Louisiana 70434 (USA)

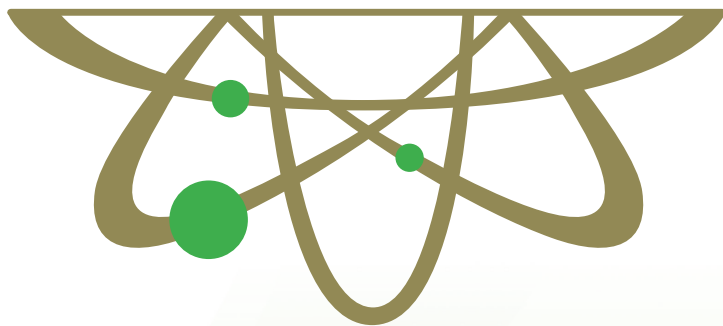
E-mail : kathy@h2so4today.com







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Mr. Azeddine EL MIDAOU	Doyen faculté des sciences, Kénitra, Maroc
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Mr. Abdelaziz HAKAM	Chef unité de recherche engrais & fertilisation, Direction Recherche et Développement, OCP S.A.
Mr. Youssef ZEROUAL	Direction Recherche et Développement, OCP S.A.
Mr. Hamid MAZOUZ	Chef Unité recherches technologies de séparation, Direction Recherche et Développement, OCP S.A.
Mr. Lhoussaine OMARI	Chef Unité recherches Acide phosphorique, Direction Recherche et Développement, OCP S.A.
Mr. Faïçal LARACHI	Professor, Laval University, Canada.
Mr. Rachid MHAMDI	Head, Environmental Department, JACOBS Engineering S.A.
Mr. El-AidJDID	Ingénieur de Recherche, Laboratoire Environnement et Minéralurgie LEM, France.
Mr. Ismail AKALAY	Directeur Général MANAGEM, Morocco
Mr. Hakim FAQIR	Directeur Adjoint recherche REMINEX/ MANAGEM, Morocco.
Mr. Faris DERRIJ	Directeur de production de l'axe Merah-Béni Idir à Khouribga, OCP S.A.
Mr. Ahmed SADIK	Responsable Développement Durable Maroc Phosphore Safi, OCP S.A.
Mr. Ahmed ZNIBAR	Directeur Projets Traitement, OCP S.A.
Mr. Hassan BOUMAGGARD	Doyen de la Faculté Poly-disciplinaire, Université Cadi Ayyad, Safi, Morocco.
Mr. Jayanta BHATTACHARYYA	Professor, Indian Institute of Technology, India
Mr. Hassan EL SHALL	Associate Professor, University of Floride, USA.
Mr. BrijMOUDGIL	Professeur, University of Florida, Gainesville, USA.
Mr. Henri DELMAS	Professeur ENSIACET, Laboratoire de Génie Chimique, Toulouse, France.
Mr. Christopher EARL	Technology Consultant, KEMWorks Technology, Inc, USA.
Mr. Abdelaâli KOSSIR	Directeur Recherche & Développement, OCP S.A.
Mr. Marten WALTERS	President, KEMWorks Technology Inc, Kentucky, Lakeland, USA.
Mr. Sotudeh GHAREBAGH	Department of Chemical Engineering University of Tehran, Tehran, Iran.
Mr. Serge VIGNERON	Ingénieur, Sales and project Manager at LESNI A/S, ex-Monsanto, France.
Mr. Mohamed SMANI	Directeur de l'Association R&D Maroc.
Mr. Bruno AMEDURI	Directeur de Recherches, CNRS, France.
Ms. ESTENOZ Diana A.	Ingénieur en Chimie, Santafe-Conicet, Argentine.

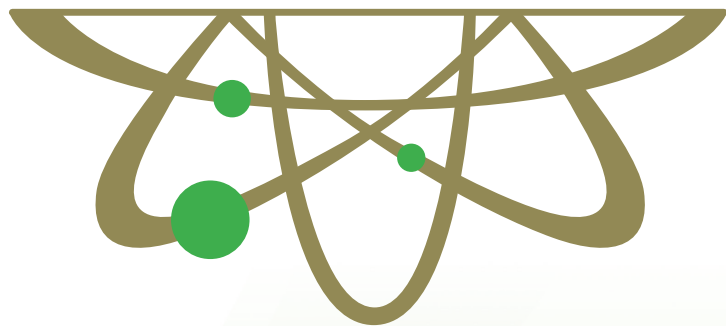


Mr. Muthanna AL-DAHAN	Professor, University of Science and Technology, Missouri, USA.
Mr. B.K. PAREKH	Professor, University of Kentucky, USA.
Mr. John HILTON	Consultant Expert, Aleff Group, UK.
Mr. Robert HALL	UBC, Canada.
Mr. Jacques PUCHAUX	GLATT, France.
Mr. Rachid HAKKOU	Ph. D. Professeur, Université Cady Ayyad, Maroc.
Mr. Abderrahim NASSIR	Agronome en chef, Pôle commercial, OCP S.A., Maroc.
Mr. Miguel SANZ	Directeur de l'Innovation et de Développement, Degremont, Espagne.
Mr. Lhoussaine MOUGHLI	Professeur à l'IAV Hassan II, Maroc.
Mr. Rachid BOUABID	Professeur à l'ENA Meknes, Maroc.
Mr. Ahmed SOULHI	Chef de département, OCP S.A., Maroc.
Mr. Ouadie SENHAJI	Chef de département, OCP S.A., Maroc.
Mrs. Meriem EL Mehdi	Responsable Méthodes, Planning et Performance à Youssoufia, OCP S.A., Maroc.
Mr. Mohamed BOUSSETA	Directeur Chargé de Missions, OCP S.A., Maroc.
Mr. Tijani BOUNAHMIDI	Professeur EMI – Rabat, Maroc.
Mr. Khalil EL MEJAHED	Chercheur en Fertilisation et Engrais, OCP S.A., Maroc
Mrs. Husnain HUSNAIN	Researcher, ISRI: Indonesian Soil Research Institute, Indonesia.
Mr. Belkacem ABDOUS	Chef d'unité R & D modélisation, OCP S.A., Maroc.
Mr. Iliass BELHAROUAK	Materials Scientist Energy Storage Expert, Argonne National Laboratory, USA.
Mr. Nadim F. FULEIHAN	Sc.D., P.E., President, Senior Consultant, Ardaman & Associates, Inc., USA.
Mr. Mounsif EHLALI	Chef de service, OCP S.A., Maroc.
Mr. Tibaut THEYS	Prayon S.A., Belgique.
Mr. Abdellatif EL BAKKALI	Maitre de recherche, OCP S.A.
Mr. Belkacem ABDOUS	Chef d'unité R&D modélisation
Mr. Abderrahim NASSIR	Agronome en chef – Pôle commercial, OCP S.A.
Mr. Abdelmonim EL KANIT	Agronome – Pôle commercial, OCP S.A.
Mr. Kamal RHILLANE	Alternative sustainable solutions.
Mr. Achraf RIAD	Vice President, Ardaman & Associates.





CONTACT INFORMATION



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Technical Commit

M Mohamed AMALHAY
Tel: +212 523 345 122

Mlle Hakima BATTAL

Mlle Aziza ALTAMIA

Speakers

Mr. Youssef GABOUNE
Tel: +212 659 216 002

Exhibitors

Mrs. Maria ALAOU
Tel: +212 661 801 866

Press

Mrs. Sana SMYEJ
Tel: +212 661 323 331

Mrs. Badya KHALID
Tel: +212 613 024 497

Mr. Aziz MOQADEM
Tel: +212 661 211 729

Logistics

Mrs. Rania TAGMOUTI
Tel: +212 661 339 395

Mrs. Sahar BRITEL
Tel: +212 661 264 127

SYMPHOS venue

Address:
Sofitel Agadir Royal Bay Resort. BP 226
Cité Founty P4, Baie des palmiers. Agadir

Tel: +212 528 820 088

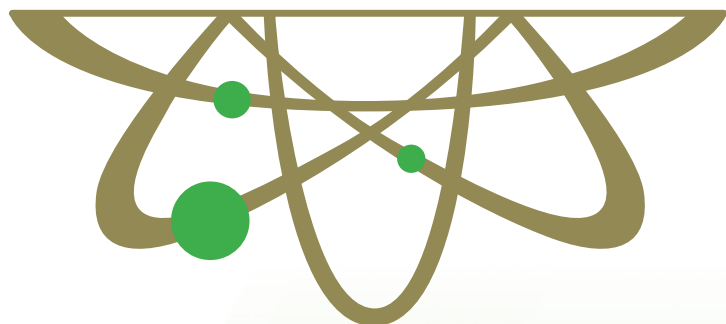
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Al Massira Agadir airport:

Tel: + 212 528 839 102



LOCATION





AGADIR

Agadir is Morocco's main western seaport on the Atlantic Ocean. The name is a shortened version of "Agadir n Irir", a Berber word which means "a fortified granary".

Agadir is a fine modern city with a host of excellent hotels, wide avenues, gardens in bright bloom, a magnificent port and a first-rate airport-and, above all, a splendid beach stretching for six kilometers, the air scented by pine, eucalyptus and tamarisk. Agadir's reputation as a beach resort has spread worldwide. From a cliff-road flanking the hill, the Old Kasbah, dating from the 16th century, overlooks the azure spread of the ocean, the verdant valleys of the Great Souss and the majestic slopes of the Anti-Atlas. Agadir is not only the kingdom's main fishing-port, it is also its first holiday haven, and the city is very organized.

Bathed in sunshine the whole year round, the city offers facilities for sailing, wind surfing, horse-riding, tennis, golf and a host of other sports activities. Those in search of the quiet life may simply lounge in the shade of a eucalyptus, sipping a fresh fruit cocktail.

Perched between the mountainous regions of the Anti-Atlas and the western extreme of the High Atlas, Agadir is a departure point for a variety of marvelous excursions.

To the West lies Taroudant, a medieval town nicknamed "little Marrakesh", with its tawny ramparts, picturesque souks and bustling little cafes beneath the arches of Assarag square.

Tiznit, on the edge of the Sahara at the feet of the Anti-Atlas, lays 90 kilometers south of Agadir-a town famed for its beautiful Berber silver jewelry and its long tradition of fine craftsmen. And then there is Tafraout, a little town nestled in the heart of a great valley, with its delightful pink granite terraces and its pale ochre houses jostling against one another beneath breezes wafting the scents of almond and fig.

Tourist Sites

- **Kasbah:** Looking out over the city, port and Ocean from a height of 240 m, the kasbah was built in 1540 by the Saadians to protect the city against the Portuguese. It is the ideal spot from where you can admire the splendid view over the whole city.
- **Port:** Agadir is the country's leading fishing port and fourth ranking commercial port. It includes a large number of canned food and frozen fish factories.
- **Valley of the Birds (La vallée des oiseaux) :** Located in a ravine in the heart of the city. This small zoo contains birds from all over the world.
- **Suk (market):** To the Southeast of the city, an open air market spread out over more than 6 hectares. This market is packed with merchandise including a huge variety of spices.
- **Folk art museum:** Created in 1992, within the municipal theater complex. This museum offers a collection presenting the folk arts and traditions of the Souss valley.



Outskirts

- **Immouzzar des Ida Outanane**

At 59 km to the Northeast of Agadir, every year this village holds the annual honey festival (April-May).

- **Taroudant**

Just 81 km to the East of Agadir, this small city drenched in history, the old quarter of which is surrounded by 8-meter high fortifications running along 8 full kilometers built at the beginning of the 18th century, is famous today for its picturesque countryside and the handicraft items one finds in its markets.

- **Tiznit**

At 92 km to the South of Agadir, this city is famous for skillful jewelers who make superb silver jewelry.

- **Tafraout**

At 148 kilometers to the Southeast of Agadir at an altitude of 1200 meters, Tafraout is located in a valley surrounded by cliffs of pink granite sculpted by countless years of erosion. Palm, olive and almond trees attractively dot this extraordinary landscape.

