

# Call For Papers

SYMPHOS committee would like invite to submit articles for the forthcoming 2019 edition.

After five editions, SYMPHOS is being the world's largest symposium on innovation and technology in the phosphates industry, it's offert opportunities to facilitate discussion and knowledge exchange of the state-of-the-art research findings and current and future challenges and opportunities related with all facets and aspects of minning, beneficiation, agriculture, fertilizers, biofertilizers, environment renewable and sustainable energy, phosphoric and sulfuric acids..... The target public of SYMPHOS includes all interested people from academia, industry and government, particularly, researchers, consultants, policy-makers, engineers, PhD and Masters students and other specialists interested in all issues related to the phosphates industry.

The scope of SYMPHOS covers a broad range of hot topics including :

## SYMPHOS 2019 topics :



- The 1st axis is dedicated to innovative technologies, new processes (intensification, granulation...), and new applied researches developed around phosphate industry.
  - Innovative phosphate technologies involving : Micro-technology, Micro-engineering, micro-equipment, nanotechnologies.
  - Process intensification.
  - New extraction technologies of phosphates & minerals.
  - New and innovative operating modes of phosphate production.
  - Digital data
  - Predictive research for the industry of the future ...



- The 2nd axis will focus on new processes related to phosphoric acid, fertilizers and new materials :
  - Beneficiation,
  - Phosphoric and sulfuric acid,
  - Ammonia,
  - Special and smart fertilizers/Bio fertilization,
  - New Materials, corrosion and protection systems.



- The 3rd axis will introduce new Innovative works through basic and applied research & development in the circular economy field: using renewable energy to dry phosphate/fertilizers, discussing impact of environment & climate change on agriculture, managing and valorizing by-products...
  - Water, Dessalination, waste treatment,
  - Responsible mines,
  - RSE ?
  - Innovative use of Renewable Energy
  - Management and valorization of sludges, phosphogypsum.
  - Elimination and management of heavy metals
  - Climate change and agricultural opportunities: New production systems, Best practices..



- The 4th axis of this program will be dedicated to high elements value extract from phosphate sources
  - Fluorine
  - Rare Earth Elements , iodine and other trace elements
  - Sulphur
  - Catalysts
  - Phosphate glasses
  - P4
  - ...



- The 5th axis of this program will be dedicated to Innovation for Agricultural development in Africa :
  - Challenge of knowledge sharing and transfer of advanced research results.
  - Management of African soils (Fertility map, soil salinity) and new methods used to identify soil qualities and soil needs.
  - Agriculture of the futur in Africa: recent advances and new Technologies, crops...
  - Integrated portfolios of best technologies and practices.
  - Sustainable productivity growth, value chains.
  - Transformation of African Agriculture: technology implications and implementation.



## **Best Paper**

## **« Innovation « SYMPHOS » Award » :**

The Innovation SYMPHOS Award (ISA) aims to promote recent innovations to make them better known so that their example is followed or adapted.

This prize will be open to any person or start-up whose project is already operational or in a very advanced stage (POC / MVP) and which can be the subject of an initial evaluation (Best Project Award)

On the SYMPHOS website ([www.symphos.com](http://www.symphos.com)), we will announce the Innovation Award and the rules for participation in this event. A jury of experts will be set up by the Symphos organizing committee.