

L'Ambassade de la Fédération de Russie en France  
Le Centre de Russie pour la Science et la Culture  
La Représentation Commerciale de Russie en France



et la

Société de Calcul Mathématique SA

organisent une



## Conférence Exceptionnelle

### France and Russia : From Research to Competitiveness for our Companies

le jeudi 23 mars 2017, de 14 h à 19 h  
(la conférence sera suivie d'un cocktail)

**All lectures will be in English**

#### **General description of the theme**

From the beginning of the 20th century, powerful mathematical tools were introduced by Russian mathematicians ; they deal with tests of hypotheses (Kolmogorov, Smirnov, Khinchine, etc.), and with optimisation procedures (Pontriagin). These tools are now widely used by many companies. This conference will show that, more generally, scientific tools are essential for commercial competitiveness, and that these tools take quite long to develop and be recognized.

#### **Organization**

14 h Opening : Alexandre Tourov, Head, Commercial Representation of Russia in France.

Introduction : Kyrill Bykov, Advisor for Science and Technology, Russian Embassy in France : The role of mathematics in French-Russian bilateral relations.

General presentation : Bernard Beauzamy, SCM SA

Title : "Why is it so hard, and why does it take so long ?"

*We will show that scientific tools, connected with statistical tests and with optimization techniques, are far from being obvious. Their development in itself took decades. And then the appropriation by industrial companies also takes a lot of time. But not more than the appropriation, by hospitals, by medical practitioners, of the discoveries of Pasteur and Semmelweis, made around 1870, which are not fully operational today !*

Document de Bernard Beauzamy : [L'apport de la R&D à la compétitivité des entreprises](#)

Then, three technical sessions will take place. All talks are 30 min.

*Please click on the name of the speaker in order to download the lecture (all in pdf format)*

### *Session 1 - Industrial Companies*

[Gabriel Fricout](#), Head of Data and Signal Processing Team, ArcelorMittal R&D

Title : "Science and Steel : (heavy ?) maths for (heavy ?) metal"

### *Session 2 - Asset Management*

[Philippe Crouzet](#) (European Environment Agency, retired)

Title : "Evaluation of assets and their development: addressing uncertainties, lessons from management of water resources in Europe"

[David Landier](#), Head of Substations Department, RTE (French Electricity Transportation Network)

Title : "Toward a Risk-Informed Asset Management"

### *Session 3 - Software Companies*

Sergio dos Santos, Axtrid

Title : "20<sup>th</sup> century Russian mathematics and software for R&D productivity improvement : an application to chemistry"

Registration (free but compulsory) : [assistante@scmsa.eu](mailto:assistante@scmsa.eu) or by fax : 01 42 89 10 69.