

Tomorrow ...
towards a selected chemistry, 4th edition
chemistry for life sciences,
life sciences for chemistry
June 3 & 4 2010, CPE Lyon, France

**international symposium
with Nobel Laureates***

Barry Sharpless*

Yves chauvin*

Gillian Barratt

Lyndon Emsley

Marc Fontecave

Herman Höfte

Daniel Mansuy

Bernard Meunier

Quinn Zhu

Face to face High schools students/scientists

Animation conducted by Sabine Quindou, journalist France 3

Registration online
www.ttschem.fr



Thursday, June 3rd

9:00 am **Face to face High schools students / Scientists**

With the participation of:

Barry Sharpless	Nobel Laureate in Chemistry 2001
Yves Chauvin*	Nobel Laureate in Chemistry 2005
Bernard Meunier	French Academy of Sciences
Marc Fontecave	French Academy of Sciences Professor, Collège de France
Olivier Homolle	President, BASF France President, SCF
Gillian Barratt	Research Director, CNRS

Animation conducted by: Sabine Quindou, journalist France 3

11:30 am **End of the morning session**

2:00 pm **Opening with:**

Gérard Pignault	Director, CPE Lyon, FR
Lionel Collet	President, Lyon 1 University, FR
Jean-Marie Basset	President, Scientific Committee, FR
Valérie Péresse*	Minister of High Education, Research and Technology.,FR *Tentative

2:15 pm **Chair Persons** Jean-Marie Basset

Barry Sharpless Nobel Laureate in Chemistry 2001
The Scripps Institute, San Diego US

« Recent Advances in Click Chemistry »

4:15 pm **Break and poster session**

4:45 pm

Marc Fontecave Professor, Collège de France, FR

« From Enzymes to Nanocatalysts: The Case of Hydrogenases »

6:00 pm **End of the afternoon session**

Friday, June 4th

9:00 am Chair Persons Philippe Sautet & Jean-Marie Herrmann
Bernard Meunier French Academy of Sciences, FR
« Hybrid molecules with a dual activity as new antimalarial drugs »

10:00 am
Lyndon Emsley Institut Universitaire de France, FR
« NMR Spectroscopy & Tomorrow's Medicine? »

11:00 am *Break and poster session*

11:30 am
Daniel Mansuy Member of the French Academy of Sciences
« La chimie du et pour le vivant »

12:30 pm *Lunch and poster session*

2:00 pm Chair persons H el ene Parrot & Loic Blum
Herman H ofte Research director, INRA, FR
« Green Biotechnology for biofuels and green chemistry »

3:00 pm
Quinn Zhu Molecular Biology Leader Omega-3 program
CR&D Du Pont company, US
« Metabolic Engineering of *Yarrowia lipolytica*: Production of Eicosapentaenoic Acid-Rich (NewHarvet) Oil for Commercialization »

4:00 pm *Break and poster session*

4:30 pm
Gillian Barratt Research Director, CNRS. UMR 8612, FR
Physicochimie-pharmacotechnie et biopharmacie.
« Targeting of drugs: the magic bullet? »

5:30 pm **Closing remarks**

The three objectives of the Symposium:

A high level scientific meeting with the 2001 chemistry Nobel Laureate

This year the general topic of the symposium is « Chemistry and Life Sciences ». Chemistry and Life Sciences are extremely interconnected since biology deals with molecules or macromolecules or complex molecular systems.

In a very simple and naive approach biology is nothing more than the study of chemical processes that take place in living systems.

At the fundamental level such creative interconnection may be evaluated by the number of Nobel laureates of chemistry who have the double culture of chemists and biologists.

A face to face between students and Nobel laureate and scientists

Lyon bets on its future: 800 junior and high school students from Rhône-Alpes will be involved in the International Scientific Symposium through a meeting and discussion with Nobel laureates and scientists from The Academy of Sciences. This face to face will allow young people to question the scientists on their expectations regarding sciences in a rapidly changing world. The animation will be conducted by Sabine Quindou, journalist.

To position the Lyon chemistry in a national and international context

This symposium is organized in Lyon because Lyon has positioned itself as a hub for chemistry and environment with world level potential via the Axelera "pole of competitiveness" label. Lyon brings together academic and research institutions (CPE, UCBL, ENS, ICL, CNRS, IDECAT, Lyon Bio pôle...). Both aspects are important for sciences teaching but also for industrial and economical development in Rhône-Alpes region and abroad.

Comité scientifique:

Jean-Marie Basset, Denis Borztemeyer, Gilbert Deleage, Loïc Blum, Jean-Marie Herrmann, Sophie Jullian, Hélène Parrot, Philippe Sautet

Comité organisation :

Marie-Laure Boulot, Denis Borztemeyer, Frédéric Gaffiot, Marion Gard, Pierre Gruau, Olivier Homolle, Philippe Kranopolski, Guillaume Laigle, Florence Lioret, Gérard Pignault, Pierre Ruitton.

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