



# Fondation Francqui-Stichting

Fondation d'Utilité Publique - Stichting van Openbaar Nut

## ***Conjugated Polymers, Oligomers, and Dendrimers:***

### ***From Polyacetylene to DNA***

***(Fondation Universitaire, October 21-23, 1998)***

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#### *Programme*

##### **Wednesday, October 21**

08h30-09h00 : Welcome address

Baron **Jacques Groothaert**, President Francqui Foundation

Professor **Luc Eyckmans**, Executive Director Francqui Foundation

Professor **Jean Luc Brédas**

09h00-10h00 : Lecture of Professor **Alan J. Heeger**, University of California, Santa Barbara, USA  
- *Semiconducting and Metallic Polymers: Progress and Opportunities*

10h00-10h30 : Coffee break

10h30-11h30 : Lecture of Professor **Robert Silbey**, Massachusetts Institute of Technology, Cambridge, USA - *Excitons in Conjugated Polymers and Aggregates*

11h30-12h30 : Lecture of Professor **Alan G. MacDiarmid**, University of Pennsylvania, Philadelphia, USA - *Effect of Traces of Ionic Species on the Properties of Polymer Light-Emitting Devices*

12h30-14h00 : Lunch

14h00-15h00 : Lecture of Professor **Jeffrey S. Moore**, University of Illinois, Urbana-Champaign, USA - *Cooperative Conformational Transitions in Aromatic Oligomers: Molecular Design Principles*

15h00-16h00 : Lecture of Professor **Arthur J. Epstein**, Ohio State University, Columbus, USA - *Organic-Based Magnets: A New Frontier*

16h00-16h30 : Coffee Break

16h30-17h30 : Lecture of Professor **J.K. Barton**, California Institute of Technology, Pasadena, USA - *Charge Transport through the DNA Double Helix*

17h30-18h30 : Lecture of Professor **Vincenzo Balzani**, Università di Bologna, Italy - *Photochemical, Photophysical, and Electrochemical Properties of Appropriately Designed Dendrimers"*

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##### **Thursday, October 22**

08h30-09h30 : Lecture of Professor **Jean-Marie André**, Facultés Universitaires Notre Dame de la Paix, Namur, Belgium - *Nonlinear Optical Hyperpolarizabilities : From Oligomers to Polymers.*

*Calculation of Electronic, Correlation and Vibrational contributions*

09h30-10h30 : Lecture of Professor **S.R. Marder**, University of Arizona, Tucson, USA - *Design, Synthesis, and Applications of Two-Photon Absorbing Chromophores*

10h30-11h00 : Coffee break

11h00-12h00 : Lecture of Professor **André Persoons**, Catholic University of Leuven, Belgium - *Symmetries in Second-order Nonlinear Optics*

12h00-13h00 : Lecture of Professor **Hiroyuki Sasabe**, Institute of Physical and Chemical Research (RIKEN), Wako, Japan - *Conjugated Molecular Systems for Nonlinear Optics: Conjugation Length and Dimensionality*

13h00-14h30 : Lunch

14h30-15h30 : Lecture of Professor **Klaus Müllen**, Max-Planck-Institut für Polymerforschung, Mainz, Germany - *p-Conjugation in 1-, 2- and 3-Dimensional Systems*

15h30-16h30 : Lecture of Professor **Frans De Schryver**, Catholic University of Leuven, Belgium - *Space Resolved Photochemistry from Ensembles to Single Molecules*

16h30-17h00 : Coffee break

17h00-18h00 : Lecture of Professor **Moungi Bawendi**, Massachusetts Institute of Technology, Cambridge, USA - *Semiconductor Nanocrystallites: Artificial Atoms, Novel Chromophores, and Building Blocks for Quantum Dot Heterostructures*

18h00-19h00 : Lecture of Professor **Jürgen P. Rabe**, Humboldt University, Berlin, Germany - *Self-Assembly at Interfaces as a Prerequisite to Contact Conjugated Molecules in Nanogaps*

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### **Friday, October 23**

08h30-09h30 : Lecture of Professor Sir **Richard Friend**, FRS, FEng, University of Cambridge, United Kingdom - *Opto-Electronic Properties of Conjugated Polymer Semiconductor Devices*

09h30-10h30 : Lecture of Professor **William R. Salaneck**, Linköping University, Sweden - *The Electronic Structure of Conjugated Polymer Surfaces and Interfaces*

10h30-11h00 : Coffee break

11h00-12h00 : Lecture of Professor **Allen J. Bard**, University of Texas, Austin, USA - *Optoelectronic Processes in Organic Single Crystal Thin Films*

12h00-13h00 : Lecture of Professor **Carlo Taliani**, Istituto di Spettroscopia Molecolare, CNR, Bologna, Italy - *Electronic Excited States in Model Conjugated Solids: Excitons and Aggregates*

13h00-14h30 : Lunch

14h30-15h30 : Lecture of Professor **E.W. Bert Meijer**, Eindhoven University of Technology, The Netherlands - *Reversible Supramolecular Polymers Based on Multiple Hydrogen Bonding*

15h30-16h00 : Final address of **Viscount Etienne Davignon**, President, Société Générale de Belgique, Former Vice-President, European Commission - *Is the European International Research Program adequate ?*

16h00-16h30 : Concluding remarks

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