

ACCADEMIA NAZIONALE DEI LINCEI

FONDAZIONE "GUIDO DONEGANI"

INCONTRO ITALO-FRANCESE

CRYSTAL GROWTH: FROM BASIC TO APPLIED

2 - 3 OTTOBRE 2002

COMITATO SCIENTIFICO: Neil W. ASHCROFT (Cornell University), Franco BASSANI (Scuola Normale Superiore, Pisa), Sergio CARRÀ (Politecnico di Milano), Raymond KERN (CRMC2-CNRS, Marseille), Claudine NOGUERA (Universités Paris VI-VII), Philippe NOZIERES (Institut Laue-Langevin, Grenoble), Carlo PAORICI (Università di Parma e IMEM-CNR), Alberto PIMPINELLI (Université Blaise Pascal, Clermont).

PROGRAMMA

Mercoledì 2 ottobre

- 9.30 Saluto del Presidente dell'Accademia Nazionale dei Lincei, Edoardo VESENTINI
- Sergio CARRÀ: Introduzione
- 10.00 Boyan MUTAFTSCHIEV (CRMC2-CNRS, Marseille): An atomistic view on crystal growth kinetics and morphology
 - 10.45 Intervallo
- 11.00 Fabio FINOCCHI (Universités Paris VI-VII): Surface properties and first stages of growth of oxides
- 11.45 Angelo GAVEZZOTTI (Università di Milano): The theoretical prediction of crystal structures for organic compounds

- 15.00 Secondo FRANCHI (IMEM-CNR, Parma): Semiconductor nanostructures and MBE
- 15.45 Isabelle BERBEZIER (CRMC2-CNRS, Marseille): Si/Ge growth and self-assembly by MBE
 - 16.30 Intervallo
- 16.45 Dino AQUILANO (Università di Torino): Bulk structure and surface patterns: the coexistence of crystal polymorphs and polytypes promoted by growth dislocations

Giovedì 3 ottobre

- 9.30 Alberto PIMPINELLI (Université Blaise Pascal, Clermont): Growth kinetics and surface instability
- 10.15 Luigi CAROTENUTO (MARS-Center, Napoli): Crystal growth in microgravity
 - 11.00 Intervallo
- 11.15 Roberto FORNARI (IMEM-CNR, Parma): Melt-growth of compound semiconductors: the indium phosphide case
- 12.00 Maurizio MASI (Politecnico di Milano): CVD: from process to properties

- 15.30 Carlo CAVALLOTTI (Politecnico di Milano): CVD: multiscale study of the selective

- deposition of AlGaAs
- 16.15 Intervallo
 - 16.30 Nicola LOVERGINE (Università di Lecce): MOCVD of II-VI compounds: past, present and future
 - 17.15 Discussione generale

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This Italo-French meeting is intended, on the one hand, to initiate a critical discussion, at a broader-than-domestic level, on the present existing correlations between basic and applied research and their mutual feedback in one of the most important aspects of advanced materials science and technology: crystal growth. On the other hand, it is the continuation of a series of bilateral joint meetings previously organized in Italy, France and Germany, aimed at comparing different expertise in the field.

The Italian Association of Crystallography, the Italian Physical Society, the Groupe Français de Croissance Cristalline and the Italian Institute for the Physics of Matter support this initiative.

ROMA - PALAZZO CORSINI - VIA DELLA LUNGARA, 10