

# MRS BULLETIN

Materials Research Society Vol. IX No. 2 March/April 1984

## MRS-EUROPE

*An Ambitious Program Of Technical Symposia, Plenary Sessions,  
And A Roundtable Discussion Highlight Second Annual Conference*

The leadership of the European wing of the Materials Research Society announces the second major conference organized by MRS-Europe. The meeting will be held June 5-8 in Strasbourg, France. The organization of the meeting is being overseen by P. Siffert, CNRS, Strasbourg.

The meeting comprises three topical symposia, conducted concurrently, several plenary sessions of general interest, and a round table discussion of materials' needs in industry.

The core of the meeting is three symposia:

### Non-Crystalline Semiconductors

"Poly-, Micro-Crystalline, and Amorphous Semiconductors" is chaired by S. Kalbitzer and P. Pinard. The Scientific Committee is composed of C. Belouet, J.C. Bruyere, E.A. Davies, A. Frova, M. Morin, P. Nagels, H.J. Queisser, M. Rodot, I. Solomon, W.E. Spear, and J. Stuke.

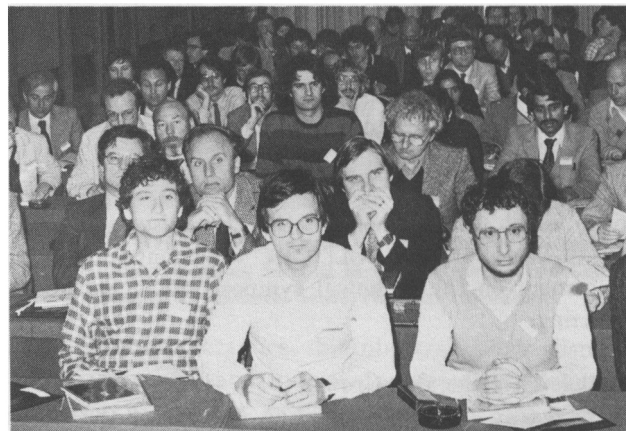
The symposium, devoted to the physics and chemistry of semiconductors in the non-crystalline state, will feature materials preparation, impurities, structure, electronic states and transitions, transports (electronic, atomic, energetic), and devices.

The list of invited speakers includes W.E. Spear, S. Stuke, I.G. Austin (U.K.), C. Belouet (France), A. Bourret (France), A. Chenevas-Paule (France), F. Evangelisti (Italy), L. Ley (Germany), J. Mugarino (France), G. Revel (France), E. Sirtl (Germany), S. Veprék (Switzerland), F. Wald (U.S.A.), D.L. Weaire, and J. Werner (Germany).

### Amorphous Metals

"Amorphous Metals and Nonequilibrium Processing" is chaired by M. von Allmen. The Scientific Committee includes K.H. Buschow, P. Desre, H.J. Guntherodt, J. Hafner, U. Koster, M.A. Nicolet, and P. Panissod.

The symposium, intended to bring together scientists with expertise in techniques of metastable and amorphous metallic phase transformation, will explore such topics as mechanisms of amorphous phase formation by different methods (thermodynamics, kinetics of condensation or



SESSION from MRS-Europe's 1983 meeting

solidification, radiation damage mechanisms, solid state amorphization mechanisms); characterization/modeling of different amorphization techniques (cooling rates, glass forming "power," technological aspects); relation between method of amorphization (quenching irradiation, solid-state reaction) and resulting material structure and properties, and applications aspects of the different approaches to amorphous phase formation.

Invited speakers include K.H.J. Buschow (Netherlands), J. Hafner (Austria), U. Koster (Germany), H. von Lohneysen (Germany), G. Marchal (France), M.A. Nicolet (U.S.A.), P. Oelhafen (Switzerland), K. Samwer (Germany), G. Sepold (Germany), F. Spaepen (U.S.A.), and B. Stritzker (Germany).

### Defects In Insulators

"Induced Defects in Insulators" is chaired by P. Mazzoldi. The Scientific Committee includes G.W. Arnold, J.P. Biersack, L.T. Chaderton, J.A. Davies, P. Thevenard, and P. Townsend.

[Continued on Page 12]

*[Continued from Page 1]*

Topics to be discussed in this symposium include radiation effects on insulators (modification of optical, mechanical, chemical properties and electrical conductivity); film adhesion on insulators and interface modification effects; hydrogen as a defect in glasses (effect on physical properties); electronic energy deposition and damage in glasses and polymers; defect analysis techniques in insulators; nuclear waste management; optoelectronics; chemical element sensors, and plasma erosion of insulating surface coatings.

Invited speakers include G. Foti (Italy), D.L. Griscom (U.S.A.), L. Laycock (U.K.), K. Rossler (Germany), B. Scherzer (Germany), and J.P. Thomas (France).

## Plenary Sessions

Several sessions of general interest are planned. Tentative titles are: "Materials Aspects of Nuclear Waste Management," "Characterization of Materials by Synchrotron Radiation," "Composite Materials: Present Status of Research," "The Basic Electronic Properties of Amorphous Silicon," and "The Deposition of Glow-discharge Silicon and its Device Applications."

Additionally, P. Aigrain will moderate a roundtable discussion June 5 on the topic, "Needs of New Materials in Industry." Conference organizers indicate participants will include the research directors of the leading industrial companies in Europe.

## National Representatives

A distinguished group of scientists serve as National Representatives. They are:

*Austria:* D. Bauerle (Linz)

*Belgium:* M. Laude (Mons)

*Denmark:* J. Bottiger (Aarhus)

*France:* M. Balkanski (Paris), P. Pinard (Lyon), M. Rodot (Paris)

*Germany:* M. Cardona (Stuttgart), S. Kalbitzer (Heidelberg), E.F. Krimmel (Munich), B. Stritzker (Julich)

*Great Britain:* A. Cullis (Malvern), C. Hill (Towchester), J.B. Speight (London)

*Italy:* G. Bentini (Bologna), E. Rimini (Catania)

*Netherlands:* F. Saris (Amsterdam), J.Th.M. de Hosson (Groningen)

*Sweden:* H. Fredriksson (Stockholm)

*Switzerland:* M. von Allmen (Bern)

## Registration

The cost of the conference is FF 1,000, which includes the proceedings. Students may enroll for FF 350 (this fee doesn't include the conference proceedings). The meeting will be held at the Council of Europe in Strasbourg. Advance registration is recommended but not essential. For

information, including a list of recommended hotels, write to the Secretariat, Centre de Recherches Nucleaires, Laboratoire Phase, F-67037 Strasbourg Cedex, France, Attention P. Siffert.

---

## CHALLENGES

---

*[Continued from Page 2]*

remarkably short period of time, and the Society is very fortunate to have engaged an outstanding Executive Director, John Ballance, and a remarkable Executive Secretary, Anne Wagner, to staff the office. A permanent, centralized Headquarters Office will provide a continuity to the Society's activities that has not been possible in the past.

## MRS Committees

Finally, it is with great pleasure that I can report that the MRS committees have taken on a much greater

---

### *MRS Committees Assume Larger Role In Determining The Society's Future Growth*

---

responsibility in determining the future direction of the Society, and a greatly expanded role in carrying out the Society's activities. In the past, the Society's direction and activities were determined primarily by a relatively small number of the most dedicated members of the Program Committee and the Executive Committee. Our membership and our activities are so large and are growing so rapidly that this could no longer be possible. Fortunately, a large number of our colleagues have come forward and revitalized our Committees, which are already formulating recommendations on the direction and activities the Society should undertake. Following approval, the Committees will devise procedures and implement these new programs. The expanded role of the Committees is crucial to the future growth of the MRS. Their responsibilities will continue to be greatly expanded throughout the remainder of this year. Detailed accounts of the Committees' work are being reported in this and future issues of the BULLETIN.

In sum, the membership of the Materials Research Society is growing at a remarkable rate, and our activities and the services we provide are increasing accordingly. This dynamism will continue to accelerate. Only our goal remains unchanging: Insuring that the Materials Research Society is responsive to the needs of the world community of materials professionals.

**C.W. "Woody" White**  
MRS President