## **MRS-Europe report**

Next June, the third annual meeting of MRS-Europe will be held. Once again it will located in Strasbourg, France, where the two previous highly successful conclaves have been met. The first and second meetings comprised one and three symposia, respectively. The third in the series will expand to four symposia and cover a wide variety of materials research topics. The planned topics are briefly described below. For further information on topics and registration, contact the MRS-Europe Secretariat at CENTRE DE RECHERCHES NUCLEAIRES, Laboratoire PHASE, F-67037 STRASBOURG Cedex, FRANCE [Telephone (88) 28 65 43; telex CNRS CRO 890032 F]. Direct your inquiries to the attention of Dr. P. Siffert.

## The Symposia

Symposium I, chaired by Prof. W.J.G. Bunk of DFVL Cologne and co-chaired by Dr. J.G. Wurm of CEC Brussels, is entitled, "Advanced Materials Research and Development for Transport." It will cover topics including light metals, organized by R.J.H. Wanhill, composites, organized by P. Lamicq, and ceramic coatings for heat engines, organized by I.A. Kvernes. This symposium is co-sponsored by the Societe Francaise de Metallurgie (France), The Metals Society (United Kingdom) and the Deutsche Geselschaft fur Metallkunde (Germany).

Symposium II is titled, "Materials under Special Extreme Conditions: Space Grown Materials, Liquid Metals, and Preparation." It will be chaired by Prof. H. Ahlborn of the University of Hamburg, Prof. E. Luscher of the Technical University, Munich, and Prof. H. Frederiksson of the Royal Institute of Technology in Stockholm. Topics to be treated include fluid flow and melting behavior at reduced gravity, crystal growth including zone refining, and solidification and other types of metallurgical problems.

Symposium III, on "Superlattices and MBE," will be chaired by Dr. K. Ploog of MPIF, Stuttgart. Dr. N.T. Linh of Thomson (Orsay) will act as vice chairman.

The topical coverage of the symposia is exemplified by the following tentative list of invited lectures: GaAs/AlAs QW Structures by MO CVD III-V Superlattices by MBE InP/(GaIn)As QW Structures by MO CVD IV-VI Superlattices by Hot Wall Epi GaAs/AlxGa1-x as TEGFET Quantized Hall Effect Dynamics of Photoexcited Carriers CdTe/HgTe Superlattices by MBE Silicon MBE In-situ Surface Studies Theory of III-V Heterostructures

## **Return to an Earlier Topic**

Symposium IV sees the return of a topic closely paralleling that of the first MRS-Europe meeting: "Energy Beam-Solid Interactions and Transient Thermal Processing." It will be chaired by Dr. V.T. Nguyen of CNET Grenoble and A.G. Cullis of the Royal Signals and Radar Establishment, Malvern, U.K. This symposium is devoted to transient processes in materials induced by energy beams. This meeting will place emphasis on beam-solid interactions and formation of thin layers for device applications. Specific areas in which papers are solicited include:

Fundamentals of Energy Beam Interactions with Solids

Transient Thermal Processing of Materials

Energy Beam Induced Chemical Processing

Fabrication Techniques of Thin Layers for Silicon on Insulator (SOI) and Three Dimensional (3D) Integrated Circuit Technologies: Recrystallization, Epitaxy, FIPOS, SIMOX, etc. Impurity Incorporation and Associated Instabilities

Defect Formation and Characterization

A tenative partial list of invited lectures includes:

Laser Chemical Processing - D. Bauerle

Formation and Oxidation of Porous Silicon for SOI Technologies -G. Bomchil

Laser Recrystallization Techniques of Silicon on Insulator (SOI) Films - J. P. Colinge

Energy Beam Interactions with Solids - A. G. Cullis

Semiconductor Processing with Excimer Lasers - E. Fogarassy

Electron-Beam Induced Recrystallization of SOI Films - D.J. Godfrey

Applications of Laser Annealing - J. Gotzlich

Epitaxial Lateral Overgrowth - L. Jastrzebski

MOS Transistors in Beam-Recrystallized Silicon Films - T.I. Kamins SOI and 3D Integrated Circuits in Laser-Recrystallized Silicon Films - T. Nishimura

Transient Annealing of Compound Semiconductors - B. Sealy

Metastable Materials Made by Laser Irradiation - M. Von Allmen

P. Siffert Strasbourg

## Constitution changes approved

In the recent MRS election, members approved several changes to the Society's Constitution. These included minor changes in wording and two significant modifications important to the continued growth of the Society.

"These important changes provide for the development of MRS Sections and Student Chapters," reports Richard L. Schwoebel, Secretary. "The changes actually reflect developments that have already taken place." He notes the establishment of a North Carolina Chapter of the MRS this year, and preliminary organizational work going on in northern California.

"With regard to Student Chapters," Dick adds, "the Chapter at UCLA is flourishing, and one at Cornell is actively being considered."

"The MRS is, of course, delighted with these new ventures, which have been initiated by active MRS members," he concludes. "We will continue to assist these local organizations. We believe such organizations will bring new vitality to the Materials Research Society and will be an important source of ideas as well as members as the MRS continues to mature."