MRS University Chapter Publishes Handbook

The MRS Chapter at the University of Rochester, with contributions from the University of Michigan Chapter, created and edited a manual on how to set up and successfully run a University Chapter, *MRS Student Chapter Handbook*. The manual is complete with information, instructions, and copies of required forms. It lays out step-by-step how to register the chapter with the Materials Research Society, and how to recruit members.

Once the MRS University Chapter is established, the editors offer tips on how to generate funding from members and the university. They explain three funding programs offered through MRS: The Rebate Program, Special Projects (such as this manual), and the Distinguished Speaker Fund.

Two major activities covered in these pages describe how to sponsor and cosponsor seminars and how to carry out grassroots education in the local community. When sponsoring a seminar, the type of questions the Chapter should ask itself are "What kind of event would you like to sponsor?" "If you decide to sponsor an invited lecture, where do you start?" "How do you pay for a speaker?" "How do you get a speaker to come?" and "How do you plan the seminar itself?" A similar list is provided for grassroots education.

The editors offer their own experiences as examples and provide samples of letters and forms they used for Chapter events. They end the manual with a brainstorm of other activities various Chapters could pursue.

For further information about the *MRS Student Chapter Handbook*, contact MRS Member Services at 412-367-3004 x402; fax 412-367-4373; e-mail info@mrs.org.

University of Rochester Chapter to Ship Lab Equipment to Philippines

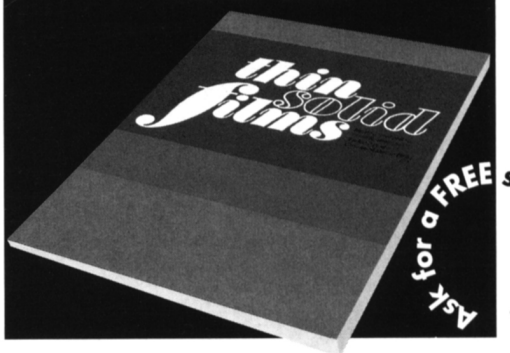
Michal Freedhoff, Kristen Kulinowski, and Sean Moran of the Chemistry Department at the University of Rochester are organizing a shipment of old laboratory equipment and supplies for the Ateneo de Manila University in the Philippines. Their efforts are cosponsored by the University of Rochester Chapter of the Materials Research Society.

Kulinowski and Moran initiated this project after a recent visit to Manila where they found that the university's scientists, lacking funding for supplies, ingeniously

thin solid films

International Journal on the Science and Technology of Condensed Matter Films

For:
Scientists and Engineers active in research, development, and applications of condensed matter films



Ask for a FREE sample copy!

ISSN 0040-6090

Published in 36 issues in 1995

NEW

Associated Personal Subscription

Does your library hold a 1995 subscription to *Thin Solid Films*? If the answer is YES, you are entitled to order a 1995 **personal** subscription for your own use and convenience. Ask for an order form by contacting Elsevier Science.

Editor-in-Chief: J.E. Greene, *Urbana, IL, USA*

Thin Solid Films is in a unique position to both reflect developments in the evolving field of thin films and to provide guidance and coherence.
The field of thin films, which can be defined as the confluence of materials science, surface science, and applied physics, has become an identifiable unified discipline of scientific endeavour. The scope of *Thin Solid Films* is indicated by, but not limited to, the following topical subheadings: Synthesis and Characterization; Surfaces, Interfaces and Colloidal Behaviour; Metallurgical, Protective and Hard Layers; Mechanics and Nanomechanics of Thin Layers; Electronics, Optics and Opto-electronics; Magnetics and Magneto-optics; Superconductivity; Langmuir–Blodgett, Biological and Related Films; Thin Film Devices, Sensors and Actuators; Condensed Matter Film Behaviour.

ELSEVIER
ELSEVIER SCIENCE SA
PO Box 564, 1001 Lausanne, Switzerland
Tel.: +41 (21) 320 73 81, Fax: +41 (21) 323 54 44

For customers in the USA and Canada:
ELSEVIER SCIENCE INC
Attn. Journal Information Center
PO Box 882, Madison Square Station
New York, NY 10159, USA
Tel.: +1 (212) 633-3750
Fax: +1 (212) 633-3764

Please send a free sample copy and subscription information on **THIN SOLID FILMS**

Name: _____
Company/Institute: _____
Street: _____ City: _____
Country: _____ Postal Code: _____
Date: _____ Signature: _____

TSF/MRS9506

Circle No. 4 on Reader Service Card.

https://doi.org/10.1557/S088376940003699X Published online by Cambridge University Press

used old baby bottles as glassware, and made optical equipment with pieces of old compact disks. The two students, along with Freedhoff, the current Chapter president, decided to contact local industries and universities in addition to all science and engineering departments at their university in order to solicit equipment and monetary donations. Thus far, publicity for the event has been secured on campus, locally, and nationally, and the group hopes to be able to contribute to every science and engineering department at the Ateneo. The students find gratification in being able to encourage research and education in less-developed countries, plus the project provides an environmentally friendly way of recycling equipment that donors no longer use.

The group is soliciting glassware, solar calculators, pipettes, top-loading balances, centrifuges, circulating pumps, ultraviolet lamps, thermometers, heating mantels, heating tapes, chromatographs, spectrometers, refractometers, polarimeters, microscopes, simple optics and electronics, voltmeters, computer equipment (PC), technical journals, and other low-maintenance laboratory equipment. Monetary donations are also accepted to help cover shipping expenses and the purchase of disposable items such as pH paper, batteries, and pipettes.

The shipment date is tentatively scheduled for early July 1995.

MICHAL FREEDHOFF

To donate equipment or money for the Philippines project

Contact Michal Freedhoff at 716-275-2980, e-mail: frem@uhura.cc.rochester.edu; Kristen Kulinowski at 716-244-1778, e- mail: krsk@DB1.cc.rochester.edu; or Sean Moran at 716-275-3027.

Checks and money orders can be made payable to the "University Outreach Society" and sent to one of the students listed above, c/o Department of Chemistry, University of Rochester, 404 Hutchinson Hall, Rochester, NY 14627; receipts and bank statements are available upon request.

Contact the students involved before sending equipment to ensure that the particular items are needed.

UC—Berkeley Chapter Prepares for Exceptional Teaching Award

For the third semester, the MRS Chapter at the University of California— Berkeley is gathering information and distributing a Course Evaluation Guide providing details on each class offered in the Department of Materials Science and Mineral Engineering. Both undergraduate and graduate students participate in the evaluation project. The Chapter further uses the information in order to choose a faculty member for the Exceptional Teaching Award. Timothy Sands was the most recent (and first) recipient of the Award.

The evaluation includes an overall rating for the course, the professor's teaching ability and clarity, the teaching assistants' instructing qualities, the textbook, and the homework assignments and exams. Recipients are chosen by tallying up scores based on the evaluation for each professor. Each recipient's name is engraved in a plaque the Chapter created that hangs in the department office. The recipient for the Spring semester will receive the award this Fall. □

Send MRS University Chapter and Section News to: Editor, *MRS Bulletin*, Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237-6006. Fax: (412) 367-4373; e-mail: Bulletin@mrs.org.

CONFERENCE REPORT

International Workshop Illustrates Progress in Determination of 2-D Dopant Profiles

The third international workshop on the Measurement and Characterization of Ultra-Shallow Doping Profiles in Semiconductors was held at Research Triangle Park, North Carolina on March 20–22, 1995. The workshop was chaired by Jim Ehrstein of the National Institute of Standards and Technology (NIST), Rajiv Mathur of Intel, and Gary McGuire of Microelectronic Center of North Carolina (MCNC). The meeting was attended by 135 people from 10 countries, and 51 papers and posters were presented. Refereed versions of the papers will appear in a single issue of *Journal of Vacuum Science and Technology*, as has the papers from the previous two workshops in this series.

This workshop, which has been held biennially since 1991, has the special character that it focuses on a single topic, dopant distributions in ultra-thin layers in semiconductor materials, in a manner that is deeper than a general session on semiconductor characterization and yet broader than the coverage in specialty meetings that are focused on a single family of analytical techniques, such as the meetings on secondary ion mass spectrometry (SIMS) or atomic force microscopy (AFM).

In addition to many detailed papers on the use of SIMS, transmission electron microscopy (TEM), spreading resistance profiling (SRP) and capacitance-voltage measurements, progress was also reported in the use of AFM-based probes, analysis of secondary electron emission from doped junctions, and time-resolved surface photovoltage measurements. The meeting was significantly enhanced by sessions on process modeling and techniques for extraction of doping profiles from transistor characteristics for deep-sub micron CMOS devices.

Among the many dramatic examples of the recent progress which has been made in the determination of two-dimensional dopant profiles, one of the most beautiful was the work of Roger Alvis and his coworkers at AMD and Stanford which used a combination of cross-section TEM and AFM, chemical etching, SIMS and process modeling to show the details of the effects ion energy and beam incidence angle on the characteristics of source/drain junctions on the implanted and shadowed edges of poly-silicon gate structures. The two-dimensional doping levels for As implants were determined over a concentration range from 10^{20} to 10^{18} cm^{-3} with a spatial resolution of a few nm.

The workshop was sponsored by American Vacuum Society, Intel, MCNC, NIST, and Sematech with corporate support from Evans East and Varian. It is anticipated that this workshop will be held again in two years.

MICHAEL CURRENT

https://doi.org/10.1557/S088376940003699X Published online by Cambridge University Press