

EDUCATION COMMITTEE
Report for Triennium 1995 - 1998

Chair: Joe Greene

Secretary: J. Lyn Provo

Committee: I. Calado-Ferreira, J.L. de Segovia, R. Dobrozemsky, C. Falcony, V. Grazhulis, M. Jenko, J.H. Leck, J. Leclerc, M. Milun, T.S. Park, J.L. Robins, J.W. Rogers, M. Sancrotti and A. Zalar.

The primary activities of our committee over this triennium have been in four areas: (1) the IUVSTA Visual Aids program, (2) the IUVSTA short course program, (3) developing an IUVSTA tutorial workshop program, and (4) developing an effective website. We hope, through the sum of these efforts, to build a highly viable and visible international education program.

The IUVSTA Visual Aids Program has proven to be highly successful. We have sold well over 200 modules. Professor Harry Leck from the University of Liverpool accepted the position of Editor-in-Chief and is responsible for reviewing all modules, suggesting improvements, insuring high quality and standardization, and developing new topics. Examples of the present modules were available for viewing by participants at a special IUVSTA booth at the ICTF/EVC meeting in Salamanca and will also be shown at the IVC in Birmingham. Future revisions will be carried out through IUVSTA Divisions rather than through national Vacuum Societies as has been done in the past. Work is in progress on updating five modules: "Gas Transfer Pumps" (Dr. Jean Leclerc, France), "Residual Gas Analysis" (Dr. Len Beavis, USA), "Vacuum Deposition" (Professor Angus Rockett, USA), "Leak Detection" (Dr. Steve Hoath, UK), and "Vacuum Materials" (Drs. Norm Peacock (USA), Ron Reid (UK), and Bryce Halliday (UK)). We intend to eventually have the modules downloadable through our website.

The third IUVSTA short course offering was held in Salamanca in conjunction with the ICTF/EVC Conference. Five courses were given and there were a total of 53 students. Overall, the offering was very successful and we received excellent feedback from the students. A full slate of short courses will be held at the IVC in Birmingham. The Education Committee is working with the Mexican Vacuum Society to organize short courses during the 1999 ICTP Conference in Cancun. A complete list of all IUVSTA short courses is posted on our website. We also provide hot links to any national vacuum society which wishes to post their short course offerings.

The IUVSTA/ICTP Workshop on the "Science and Technology of Thin Films" held March 11-29, 1996, in Trieste, Italy was an overwhelming success. The workshop, organized by Dr. Peter Barna of the Hungarian Academy of Science and Dr. C. Maticotta of ICTP, was attended by 42 students (selected from over 300 applicants) from 28 countries (primarily developing countries in Africa, Latin America, and Asia). IUVSTA instructors provided almost 60 hours of lectures. Students also had the opportunity for practical laboratory work using ion millers, AFM, XRD, laser ablation deposition, plasma CVD, etc. Plans are moving ahead for the 3rd Workshop on Thin Film Physics and Technology to be held in Trieste in March, 1999. Dr. Peter Barna and Prof. Joe Greene will serve as Directors. Dr. Sancrotti is

GM-13-02-04

GM-13-02-04

exploring possibilities of working with the new Asian-Pacific Center for Theoretical Physics in South Korea as an additional avenue for joint IUUSTA workshops.

Joe Greene.