European Correspondents Roster Expands

The roster of European Correspondents has expanded considerably since its formation and first meeting in Strasbourg, France, November 1987. The network of correspondents was formed to promote the diffusion of information on European materials research activities. [See article in the March 1988 MRS BULLETIN, p. 44.] According to Ian W. Boyd, MRS BULLETIN Associate Editor-Europe, 25 engineers and scientists are currently responsible for collecting and disseminating this information to the international scientific community. They are identified below under the countries they represent. Further nominations have been received from Y. Nissim (France), I. Eisele (West Germany), and D. Rawcliffe (Sweden). The correspondents are planning to keep MRS BULLETIN readers abreast of European materials research activities, said Boyd, by contributing to the BULLETIN's "Up Close" series and reporting on activities of the European Materials Research Society, conferences and other events, professional education opportunities, and scientific breakthroughs. Scientists who want to contribute articles, news items, or information can contact their national correspondents at the addresses listed below.

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Luc Baufay received a BS in physics and a PhD in solid state physics from Mons University, Belgium. His thesis dealt with the synthesis of semiconducting compounds by laser irradiation of metallic, sandwich-like films. He received an MRS Student Award in 1983 and he joined IBM, San Jose, and AT&T Bell Laboratories as a postdoctoral fellow. His research included materials processing by laser irradiation such as laser oxidation, LCVD, and localized metallization by laser-induced decomposition of solid compounds. He is currently project manager at Label S.A. (Laser Applications Belgium) and is responsible for the applications based on interactions between laser beams and materials. His main project involves laser processing in microelectronics. He is also teaching optoelectronics at the University of Liege.

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I.V. Mitchell, educated at the Universities of London and Keele, has a BSc and PhD in physics. In 1971, he was awarded a CNRS research scholarship which he spent at the Nuclear Research Centre in Strasbourg, France. He later took a postdoctoral fellowship at the Department of Materials Science at Oxford. Since 1974. Mitchell has been with the Commission of European Communities in Belgium. Up to 1983, he was in charge of a materials surface analysis group at the Central Bureau for Nuclear Measurements, Geel, where newly developed high energy nuclear techniques were applied to surface studies. More recently he moved to the Brussels headquarters to be scientific project manager in charge of several new materials research programs supported by the EEC. Mitchell is author of more than 50 scientific publications and is editor of two books, one on high performance magnetic materials and one on European research on materials substitution.

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Stathis D. Peteves received a BS in metallurgical engineering from the National Technical University, Athens; an MS in materials engineering from George Washington University, Washington, DC; and a PhD in materials science from the University of Florida in 1986. Since 1987 he has been a research staff member of the Institute of Advanced Materials of the Commission of the European Communities at Petten. He is presently leading the advanced ceramics joining and machining projects. His research interests include ceramic-metal interfaces, surface modification of ceramics, ceramic composites, and crystal growth kinetics. Peteves has written 10 papers in these areas is an active member of MRS, E-MRS, TMS, ASM, ACS, and AACG.

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Eric Fogarassy received his doctorate in materials science in 1975 from the University of Paris VI. He joined Philips Laboratories for two years and served as an assistant professor in solid state physics at the University of Tunis (Tunisia). In 1978 he joined the Centre National de la Recherche Scientifique as a member of the Semiconductor Division (PHASE) of the Centre de Recherches Nucléaires, Strasbourg, where he worked on laser doping for solar cell applications. Fogarassy spent one year at the Solid State Division of Oak Ridge National Laboratory (Tennessee, USA) working in different fields of semiconductor laser processing with pulsed eximer lasers. Since 1985 he has been leader of the Laser Photochemistry Group for Electronic Device Applications, PHASE Labo-

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A. Golanski was educated in Poland. During 1976/77 he was a postdoctoral fellow at McMaster University, Ontario, Canada. In 1978 he joined the Centre National d'Etudes des Telecommunications, Grenoble, where he is presently working as a Physics and Technology Division head adviser. His principal interests are in ion beam modification of materials, thin film reactions and analysis. His work has covered ion-implantation-induced damage in Si, recoil implantation from thin SiO, films on Si, creation cynamics and annealing mechanisms of ion-implantation-induced paramagnetic defects in amorphous SiO, buried SiO, layer formation by oxygen implantation, and structural properties of thin silicide films. He has been coorganizer and/or co-editor of the E-MRS conferences on Induced Defects in Insulators (1984), Dielectric Layers in Semiconductors (1986), and Beam and Plasma Enhanced Processing (1987).

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Salvatore Campisano is full professor of solid state physics at the University of Catania. He obtained a physics degree in 1969 and started research in ion beam analysis and ion implantation. He has been active in research areas such as thin films metallurgy, laser annealing of semiconductors, ion-beam-induced phase transitions, and has authored more than 110 scientific papers and two book chapters on these subjects. He has been co-organizer and proceedings co-editor of the 1986 International Conference on Ion Beam Modification of Materials and has been involved in the organization of other smaller international meetings. A research fellow at Caltech in 1974 and consulting scientist at AT&T Bell Laboratories in 1983, Campisano is now in charge of the CNR-GNSM committee for supporting semiconductor research in Italy.

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Lucio Zanotti is director of the MASPEC Institute of the CNR, Parma, Italy. He was born in 1944 and received his degree in chemistry from Bologna University in 1969. Since 1970 he has been working at MASPEC Institute, where he started research in semiconducting compounds and has headed the technology department promoting research in material preparation from the melt and vapor; crystal growth of binary, ternary, and multinary compounds; high pressure synthesis technology; and impurity and compositional inhomogeneity analysis. Zanotti has written about 80 papers and reviews and holds patents in these areas.

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Jan Dieleman joined Philips Research Labora tories, Eindhoven, Netherlands, in 1959 to study the structure of centers and their relation to luminescence, semiconductivity, and photoconductivity of solids. In 1962 he obtained a PhD in physical chemistry from the Free University, Amsterdam. Since 1964 he has headed research departments studying II-VI compounds, photoconductors, solid state ionic conductors, infrared imaging, TV pickup tube targets, solar cells, plasma chemistry, technology for compact fluorescent lamps. At present he is head of the Surface Science Department, where the program is aimed at studying mechanisms of processes for growth, etching or modification of surfaces and thin films.

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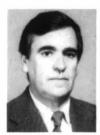


Mathias P.A. Viegers received his BS and MS degrees in physical chemistry from the Catholic University of Nimeguen. In 1976 he obtained the PhD degree in science from the same university, presenting a thesis on Mössbauer spectroscopy of gold in molecular crystals and small particles. Viegers then joined Philips Research Laboratories, where his research activities included EXAFS studies of amorphous metal alloys using synchrotron radiation, and the design of an in-house EXAFS facility. With TEM he studied electroceranic materials (including the new ceramic superconductors) and process-induced structures in semiconductor materials. He was the author and co-author of several publications in each of these fields. His

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PORTUGAL -

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João Lopes Baptista is professor at the Department of Ceramics Engineering, University of Aveiro, Portugal. He graduated in chemistry from the University of Lisbon in 1964 and obtained a PhD in chemistry from the University of Manchester, England in 1968. Prior to joining the University of Aveiro, his research activities involved the field of solid state chemistry. He joined the University's Ceramics Engineering Department in 1975 when it was established, supervising the development of curricula and research areas. Baptista's research interests are in electronic ceramics (ZnO-based varistors, grain boundary barrier layer capacitors, gas sensors), high strength ceramics for medium and high temperature applications (Si,N,, SiC, whisker and short fiber reinforced composites), and high reactivity ceramic powder prep-

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Jose Carvalho Soares studied physics in the University of Lisbon and obtained the Doktor Der Naturwissenschaften degree in 1975 at the University of Bonn, working in the group of Professor Bodenstedt. Since 1976 he has been on the faculty of science, University of Lisbon, and is now associate professor. Soares works in the Department of Physics and in the Nuclear Physics Research Center. He is the leader of the Nuclear Solid State Physics Group which introduced the perturbed angular correlation technique to measure hyperfine fields at radioactive nuclei introduced by ion implantation in different types of materials. In collaboration with the Department of Physics of the National Laboratory (LNETI) he introduced RBS/channeling and NRA techniques to the group's activities. He is responsible for collaboration projects funded by JNICT and INIC (Portugal), GTZ and Volkswagenwerk Foundation, the British Council, French and Spanish cultural agreements, and CERN using the ISOLDE Facility.

He has been a Von Humboldt fellow in Germany and visited U.S. laboratories through a NATO and a Fulbright fellowship. In 1987 he organized the NATO School on "Nuclear Physics Applications on Materials Science." Since 1984 he has been an MRS member and E-MRS national delegate.

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Betty M. León-Fong was awarded a Diplom Physiker by the Technical University of Aachen, West Germany, where she has been scientific collaborator at the Institute of Semiconductor Technology working on CVD of AlN thin films. She later received her PhD from the Universidad Complutense of Madrid, for work on liquid crystal blue phases. At present she is Professor Titular of Applied Physics at the Telecommunications Engineering School of the University of Santiago in Vigo, where her main activities since 1984 have been in the laser processing of materials.

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Dannie Jost received a BS degree in chemistry from California State University, Northridge, MS in theoretical chemistry from California State University, Los Angeles, and PhD in physics from the University of Berne, Switzerland. She is now with the Max-Planck-Institute for quantum optics in Garching, near Munich, pursuing her interests in the interaction of short laser pulses with condensed matter, with special emphasis on the dynamics of energy transfer.

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Karen J. Reeson graduated from Leicester University in 1981 with a BSc in chemistry and geochemistry. Between 1981 and 1984 she conducted her PhD research on the optical properties of ore minerals at the British Museum (Natural History) and City of London Polytechnic. In 1984 she joined the Solid State Devices and Ion Beams Technology Group at the Department of Electronic and Electrical Engineering, University of Surrey as a research fellow. Her research interests include the study of compound synthesis using energetic ion beams and ion beam analysis.

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John Owen Williams received his BSc, PhD and DSc from the University of Wales. Following a period at Aberystwyth, he was appointed to a chair in chemistry at UMIST (Manchester) in January 1984 and presently heads a Solid State Chemistry Group and is chairman of the Centre for Electronic Materials there. He is a past chairman of the Applied Solid State Chemistry Group (Royal Society of Chemistry) and is presently a member of the SERC's Molecular Electronics Committee. Williams' research interests are in the field of solid state chemistry and over the past 20 years these have covered aspects of molecular solids and inorganic semiconductors. His most recent attention has focused on molecular thin films and currently there is considerable activity within his research group on LB films. These are prepared from novel, synthesized molecular systems involving porphyrins and phthalocyanines containing various metal centers and metal-metal bonds. Work on inorganic semiconductors also focuses on the preparation and characterization of thin films. Compatibility between molecular and inorganic thin films is being investigated. A recent development within the group has been the study of electronic ceramic materials including lead lanthanum zirconium titanate (PLZT) and the bronzes.