

Advisory Board

Prof. Alberto Diaspro



Alberto Diaspro has had a distinguished career in the Applied Physics area. He is doing pioneering work in studying bio structures both in situ and in vitro using bio mimetic

and cellular systems to address normal and abnormal functioning of biological assemblies. Conventional and confocal microscopy, two-photon fluorescence microscopy and spectroscopy architecture, non linear optical microscopy, single molecule detection methods, scanning probe microscopy, just to mention some of them, belongs to his standard repertoire of biophysical instrumentation. In addition to authoring more than a hundred peer reviewed papers, he has played a role as reviewer on several international journals in the biophysical and microscopical research area. Alberto Diaspro is Professor of Physics and Biophysics and Vice-Director of the Research Center MicroScoBio of the University of Genoa, Italy.

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Dr. Colm Durkan



Colm Durkan is a lecturer in Nanotechnology at the University of Cambridge, and is based in the Nanoscience centre and at the Engineering Department. A pioneer in

scanning-probe microscopy and electronic transport at the nanoscale, he continues his work on the development of scanning tunnelling microscopy tools for characterisation of the magnetic and electronic properties of molecules and

surfaces. He has published over 30 articles in peer-reviewed journals, has given over 30 invited talks at international conferences, and is on the Editorial board of Ultramicroscopy.

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Dr. Markus Dürrenberger



Markus Dürrenberger has specialised on modern microscopy early in his career. He obtained a PhD from the University of Basel, Biocenter, Department of Micro-

biology (Switzerland). After being postdoc in the centre for microscopy of lab at the University of Zurich, Institute of Virology, he moved again to Basel. Today, Markus Dürrenberger leads the Microscopy Center at the University of Basel, Biocenter (ZMB). He is a secretary of the Swiss Society for Optics and Microscopy (SSOM). His work focuses on the application and the instrumental development of modern microscopy.

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Dr. Roland Fleck



Roland Fleck is a Senior Scientist employed within the Cell Biology and Imaging Division at the National Institute for Biological Standards and Control. He is a specialist in freeze

fracture/freeze etch preparations of plant tissues. Roland Fleck presently runs the Bio-Imaging and Assay Development group at NIBSC, which operates epifluo-

rescence/epipolarised microscopes and confocal laser scanning, scanning electron and transmission electron microscopes. The facility is anticipated to be upgraded with new FEGSEM, TEM and Cryo-preparation equipment in the next 12 months.

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Prof. Min Gu

Min Gu is one of the pioneers in the optoelectronic research.



He is a noted speaker and lecturer in the fields of applied optics. Min Gu obtained a PhD in Optics from the Chinese Academy of Sciences, P.R. China, in 1988. He is Vice Presi-

dent of the International Commission for Optics and of the International Society for Optics Within Life Science, OWLS (2005). He is the author of two textbooks and more than two hundred internationally refereed papers. Min Gu is University Distinguished Professor, Professor (Chair) of Optoelectronics and Director of the Centre for Micro-Photonics and Node Director of the Australian Research Council Centre of Excellence for Ultrahigh-bandwidth Devices for Optical Systems.

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Prof. Bert Hecht

Bert Hecht studied physics at the University of Konstanz, where he graduated in 1993



with the diploma thesis: „Mikroskopie und Spektroskopie im Optischen Nahfeld“, supervised by Prof. Dr. O. Marti / Prof. Dr. J. Mlynek. He then joined the IBM Zurich Research Laboratory in Rüschlikon and worked

with D.W. Pohl in the area of near-field op-

tics. After obtaining his Ph.D. from the University of Basel (Prof. Dr. H.J. Güntherodt) with work on „Forbidden Light Scanning Near-Field Optical Microscopy“ he moved to the Swiss Federal Institute of Technology (ETH), engaging in optical single-molecule spectroscopy in combination with scanning probe techniques. He is a member of the National Competence Center for Research in Nanoscale Science (NCCR Nano). Bert Hecht is Professor of Experimental Physics/Optics at the University of Basel. He currently applies various ultrasensitive nano-optical techniques to investigate complex matter at the nanoscale.

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Prof. Fu-Jen Kao

Fu-Jen Kao received his PhD in physics from Cornell University, Ithaca, NY, USA. He started his distinguished career in 1993 when joining the Department of Physics at the National Sun Yat-Sen University in Kaohsiung, Taiwan. He became a Professor in 2002. Afterwards he moved to the Institute of Electro-Optical Engineering, National Sun Yat-Sen University, and is currently the chairman of the Institute of Biophotonics Engineering at National Yang-Ming University. His research interests include applications and developments of laser scanning microscopy and localised surface plasmon resonance biosensing. Dr. Kao is a member of the SPIE, the Optical Society of America, Royal Microscopy Society and the Physics Society of R.O.C. He is currently a member of the Focus on Microscopy committee.



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Dr. Daniela Nicastro

Daniela Nicastro obtained a PhD in Biology at the Ludwig-Maximilians-Universität in Munich, Germany. After receiving a postdoctoral scholarship from the Max-Planck-Gesellschaft, MPI for Biochemistry, Department for Molecular Structural Biology, Martinsried, Germany, she moved as Post-doctoral Research Fellow to the Boulder Laboratory for 3-D EM of Cells, Department of Molecular, Cellular and Developmental Biology,



University of Colorado, CO, USA. Her work is focused on investigating the 3-D structure of frozen-hydrated and freeze-substituted axonemes by applying high resolution electron tomography for a better understanding of the molecular mechanisms underlying the flagellar stroke.

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Dr. Jens Rietdorf

Since October 2005, Jens Rietdorf is the head of Advanced Light Microscopy Facility at the FMI (Friedrich Miescher Institut) in Basel. He received his PhD at the Department of Molecular Embryology in Biology at Ludwig-Maximilian University, Munich, in 1996 for work on signal transduction and pattern formation in *Dictyostelium* discoideum. From 1998 to 2005, he joined as a scientific assistant the Advanced Light Microscopy Facility at the European Molecular Biology Laboratories (EMBL) in Heidelberg, Germany.



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Dr. Patrick Schwarb

Patrick Schwarb is head of the imaging facility at the FMI (Friedrich Miescher Institut) in Basel. He received a PhD in Cell Biology and Electron Microscopy at the Polytechnical School ETH in Zurich. Patrick Schwarb was assigned as Manager of the (EEC) European Advanced Imaging Center Carl Zeiss. As key account manager he has visited most of the Microscopy and imaging Centers and core facilities through Europe but as well some of them in Japan and US during many years.



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Prof. George A. Stanciu



George A. Stanciu is professor of physics at University “Politehnica” of Bucharest. He is Director of Center of Microscopy-Microanalysis and Information Processing,

founded by him in 2002. He joined University “Politehnica” in 1974, where he gained a PhD in technical physics in 1981. He has been working in the laser scanning microscopy field (instrumentation and application) since 1974. In 1977, his group reported the first scanning digital system, which was successfully used for various investigations on different semiconductor devices. Among his research interests are investigations on semiconductor materials, optoelectronic devices, thin films and semiconductor quantum dots by using laser scanning microscopy and atomic force microscopy. George Stanciu is Senior Member of the IEEE.

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Dr. Timo Zimmermann



Timo Zimmermann studied biology at the University of Munich (diploma thesis on EM serial section reconstruction). After obtaining a PhD with work on confocal 4D imaging in cell motility

and development, he moved to the Advanced Light Microscopy Facility at the European Molecular Biology Laboratory in Heidelberg, Germany. His work is focused on imaging applications for cell biology and developmental biology and on the development of modern light microscopy methods.

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