



Name: Nicola Anthony

Current Appointment: Associate Professor

E-mail: nanthony@uno.edu

Area of Research/Teaching

Research: Molecular ecology, evolutionary biology and conservation genetics

Teaching: Conservation biology, conservation management and policy, population genetics and evolution, conservation genetics and research tools for biology

Biography

1996-1999 **M. Sc.** in Conservation Biology and Sustainable Development. Institute for Environmental Studies, University of Wisconsin-Madison, USA.

1988-1991 **Ph.D.**, in Zoology. Department of Zoology, Cambridge University, U.K.

1984-1987 **B.Sc. (Hons.)** in Biological Sciences, University of Birmingham, U.K. Upper Second Class Honors: Zoology and Comparative Physiology.

ACADEMIC POSITIONS

2009-present Associate professor, Department of Biological Sciences, University of New Orleans, U.S.A.
2010-2011 Rotating Program Director for the National Science Foundation Division of Environmental Biology program in Evolutionary Processes.
2003-2009 Assistant professor, Department of Biological Sciences, University of New Orleans, U.S.A.
1999-2002 Research associate, School of Biological Sciences, University of Cardiff, Wales, U.K.
1993-1999 Research associate, Department of Entomology, University of Wisconsin-Madison, U.S.A.

REPRESENTATIVE PUBLICATIONS

- 1 Johnston A.R. and Anthony N.M. (2012) A multi-locus species phylogeny of African forest duikers in the subfamily *Cephalophinae*: evidence for a recent radiation in the Pleistocene. *BMC Evolutionary Biology* 12: 120
- 2 Soto-Calderón I.D., Lee E.J., Jensen-Seaman M.I. and Anthony N.M. (2012) Factors affecting the relative abundance of nuclear copies of the mitochondrial control region (numts) in hominoids *Journal of Molecular Evolution* 75: 102-111.
- 3 Clostio R.W., Martinez A.M., LeBlanc K.E. and Anthony N. M. (2012) Population genetic structure of a threatened tortoise across the southeastern United States: implications for conservation management. *Animal Conservation* 15: 613-625.
- 4 Anthony N.M., Mickala P., Abernethy K.A., Atteke C., Bissiengou P., Bruford M.W., Dallmeier F., Decaens T., Dudu A., Freedman A., Gonder M.K., Hardy O., Hart J., Jeffery K., Johnson M., Koumba Pambo F., Ley A., Korte L., Lahm S.A., Lee M., Lowenstein J., Mboumba J.-F., Ndiade Bourobou D., Ngomanda A., Ntie S., Sebag D., Sullivan J., Vanthomme H., Vergnes V. and Zimkus B. (2012) Biodiversity and conservation genetics research in central Africa: new approaches and avenues for international collaboration. *Conservation Genetics Resources* 4: 523-525.
- 5 Hurston H.H., Foufopoulos J., Voith L., Bonanno J., Pafilis P, Valakos E and Anthony N.M. (2009) Effects of fragmentation on genetic diversity in island populations of the Aegean wall lizard *Podarcis erhardii* (Lacertidae, Reptilia). *Molecular Phylogenetics and Evolution* 52: 395-405.



Name Marcia Cristina Bernardes Barbosa

Current Appointment Professor of Physics, Universidade Federal do Rio Grande do Sul

E-mail: marcia. barbosa@ufrgs.br

Address: Instituto de Física, Universidade Federal do Rio Grande do Sul, Caixa Postal 15051, 91501-970, Porto Alegre, RS, Brazil

Area of Research/Teaching

Computational Physics, Statistical Physics

Equity on Women in Physics

Biography

Born, Rio de Janeiro, Brazil, 1960

Doctoral Degree in Physics , Universidade Federal do Rio Grande do Sul, Brazil, 1988

Postdoctoral Fellow, University of Maryland, USA, 1988-1990

Postdoctoral Fellow, Universidade Federal do Rio Grande do Sul, Brazil, 1990

Professor in Physics, Universidade Federal do Rio Grande do Sul, Brazil, 1991-

Researcher from the grant Agency CNPq, 1992-

Director of the Physics Institute, Universidade Federal do Rio Grande do Sul, Brazil, 2009-

Chair of the Physics Committee of the Brazilian Grant Agency CNPq, 2011-.

Vice-President of the International Union of Pure and Applied Physics (IUPAP), 2008-

International Councilor of the American Physical Society, 2012-

Chair of the IUPAP Working Group on Women in Physics, 1999-2006.

Supervision of : 18 Graduate Students , 6 Postdoctoral Fellows

Organization of International Conferences: 25

Participation of International Committees: 6

Editorial Board of Journals: 6

Nicholson Prize from the American Physical Society, 2010

Loreal-Unesco Prize from Women in Physical Sciences, 2013





Name: VANDERLAN DA SILVA BOLZANI

Current Appointment: Full Professor at Institute of Chemistry, UNESP, and Director of UNESP Transfer Technology Office.

E-mail: bolzaniv@iq.unesp.br

Area of Research/Teaching

Teaching: Organic Chemistry; Biosynthesis of Secondary Metabolites from Plants.

Research Interest: Plant Science, with focus on isolation, bioactivity and function of secondary metabolites and peptides from plants. Has studied also biosynthesis of piperidine alkaloids, and is involved on metabolomics of medicinal plants.

Biography

Vanderlan da Silva Bolzani is full professor at Sao Paulo State University (UNESP), and has published over of 188 research publications, 05 patents, 04 book chapters, (2164 citations; h index = 24), and has given lectures all over World on her scientific activities. Fellow of the Royal Society of Chemistry (UK), member of the Brazilian Academy of Science, São Paulo State Academy of Science and a Science Productivity CNPq Fellow 1A has received several awards, the most recently is Distinguished Woman in Science Chemistry and Chemical Engineering, conceived by ACS & IUPAC in 2011, during the celebration of International Year of Chemistry – 43rd IUPAC World Congress, San Juan-Puerto Rico. Visiting Professor at Enzymologie Moléculaire et Fonctionnelle, UR4-UPMC, Sorbonne Université, Paris, in 2011, last year, became member of the International Scientific Board of L’Oreal, Paris. Obtained her Ph.D degree in Organic Chemistry, under guidance of Professor Otto Richard Gottlieb, University of São Paulo. In 1990 she was awarded with a fellowship from DAAD for a short training at University of Hannover. After a post-doctorate at Virginia Polytechnic Institute in 1993-1994 (VPISU-USA, fellowship FAPESP) under guidance of Professor David Kingston, she joined to the São Paulo State University (UNESP). Since 2003 is member of the Biota-FAPESP Program Coordination, and coordinator of thematic projects at Biota-FAPESP Program, since its creation in 1999. Currently is Director of the UNESP Technology Transfer Office (UNESP-AUIN) and a member of the CNPq Deliberative Council. Field of interest is plant science, and has been involved in the isolation, bioactivity and function of secondary metabolites and peptides from plants. Also she has studied biosynthesis of piperidine alkaloids, and recently has been involved on metabolomics of medicinal plants and sugar cane. Has had strong involvement in human resource training, with more than 50 Master, PhD and undergraduate students, and Pos-doctoral supervisions. She has work collaboration with National Pharmaceutical and Cosmetic Industries looking for new drugs and cosmetics from plants species of Brazilian biodiversity. In 2008, was elected President of the Brazilian Chemical Society (SBQ), and became the first woman to get this position. Currently she is a Member of SBQ Counselor. She serves as member of Editorial Boards of several Scientific Journals as Journal Natural Products, Natural Products Reports, Phytochemistry Letters and Journal of Ethnopharmacology. (Home page: www.nubbe.iq.unesp.br; email: bolzaniv@iq.unesp.br).



Stephanie L. Brock

Professor of Chemistry and Adjunct Professor of Chemical Engineering and Materials Science, Wayne State University
E-mail: sbrock@chem.wayne.edu

Area of Research/Teaching

Inorganic Chemistry/Solid State Chemistry/Nanomaterials: Research interests lie in the synthesis, properties and applications of metal pnictide and chalcogenide extended solids and nanomaterials; sol-gel methods for nanoparticle assembly, and organic-inorganic hybrid materials for biomedical applications.

Biography

Stephanie Brock is a native of the Pacific Northwest, U.S. She attended the University of Washington as an undergraduate (B.S. Chemistry, 1990), performing research on oxygen-atom transfer reactions under the direction of Professor James M. Mayer. Brock attended graduate school at U. C. Davis, where she worked with Professor Susan M. Kauzlarich in the area of solid state chemistry. Her dissertation focused on the synthesis and structure-magnetic property investigations of layered pnictide and pnictide oxide compounds of Mn and Zn (pnictogen = Group 15 element). She graduated in March of 1995 and then stayed on for several months as a postdoctoral associate where she studied mixed metal pnictide oxides. Brock began a postdoctoral position at the University of Connecticut in August of 1995 with Professor Steven Suib. There, she developed expertise in soft chemistry routes to nanomaterials through the synthesis and characterization of novel manganese oxide colloids. She also worked with ac-glow discharge plasmas for hydrogen generation and carbon dioxide decomposition. In the Fall of 1999, Brock began a tenure-track position in the Department of Chemistry at Wayne State University and was promoted to Associate Professor with tenure in 2005 and Full Professor in 2009. She has received an NSF-CAREER award, a Research Corporation Research Innovation Award and is presently an A. Paul Schaap Faculty Scholar for the term 2011-2016. In 2012, Brock was elected to be a fellow of the American Association for the Advancement of Science (AAAS).

Brock participated in the 2010 Brazilian Meeting on Inorganic Chemistry, in Angra dos Reis, RJ and has an active collaboration with Professor Ana Flávia Nogueira at the University of Campinas on hybrid inorganic/organic solar cells. This collaboration has resulted in one publication to date: J. N. DeFreitas, L. Korala, L. X. Reynolds, S. A. Haque, S. L. Brock, A. F. Nogueira "Connecting the (Quantum) Dots: Toward Hybrid Photovoltaic Devices Based on Chalcogenide Gels" *Phys. Chem. Chem. Phys.*, **2012**, *14*, 15180–15184.



Biography – Mercedes Bustamante

Email: mercedes@unb.br

Address: Departamento de Ecologia, Instituto de Ciências Biológicas, Universidade de Brasília – Brasília, DF – Brazil

Phone: 0055-61-31072984 (office) /31072987 (lab)

Mercedes Bustamante is a biologist with a Masters in Plant Physiology (Federal University of Viçosa, Brazil) and doctorate in Geobotany (Universitat Trier, Germany). She is associate professor at the University of Brasilia (Department of Ecology) and currently is director of the Department of Policies and Thematic Programs of the Ministry of Science, Technology and Innovation in Brazil. She is coordinator lead author of the next IPCC Assessment report (Working group III – Mitigation), member of the editorial board of the journal *Oecologia*. She has experience in Ecosystem Ecology with emphasis on the following topics: savannas, changes in land use, biogeochemistry, global environmental change.

Other activities

1998 – 2000 – Coordinator of the Graduate Program in Ecology of University of Brasília

2001 -2002 – Coordinator of the Training and Education Committee of the Large Scale Experiment Biosphere-Atmosphere in the Amazônia (LBA)

2002 – present- Member of Scientific Steering Committee of the Large Scale Experiment Biosphere-Atmosphere in the Amazônia (LBA)

2005 – Chair of Scientific Steering Committee of the Large Scale Experiment Biosphere-Atmosphere in the Amazônia (LBA)

2005 – 2011 – Member of the Committee for Evaluation of Graduate Programs in Ecology of the Brazilian Ministry of Education

2007 – 2012 - Member of Scientific Steering Committee of the International Biosphere-Geosphere Program (IGBP)

2009 – 2012 - Chair of the Scientific Committee of the Research Network for Conservation and Sustainable Use of the Cerrado (Rede ComCerrado) – Brazilian Ministry of Science and Technology

2009 – 2013 – representative of Latin America in the International Nitrogen Initiative



Ana Carolina O. Q. Carnaval

Assistant Professor, The City University of New York, City College of New York

acarnaval@ccny.cuny.edu

Evolutionary Biogeography, Biodiversity Studies, Biological Responses to Climate Change

Ana was born and raised in Rio de Janeiro, Brazil. She obtained her college degree in Biology from Universidade Federal do Rio de Janeiro, and her MSc. in Zoology from Museu Nacional do Rio de Janeiro – subsequently moving to the University of Chicago for a Ph.D. in Evolutionary Biology. In Chicago, Ana developed her thesis at the Field Museum, studying levels and patterns of genetic diversity in Brazilian rainforest frogs. Being awarded an NSF Minority Fellowship, Ana moved to the Museum of Vertebrate Zoology at U. California, Berkeley, where she added substantial environmental and climatic analyses to her studies, coming up with a hypothesis-testing based framework to improve prediction of biodiversity patterns in Brazil. Being offered an Assistant Professorship at City University of New York, Ana moved with her family to the East Coast in 2010, where she lives with her husband Alexandre and her children Ana Julia (6) and Rafael (4).

Fernanda Chiarello Stedile

Associate Professor

Instituto de Química

Universidade Federal do Rio Grande do Sul: UFRGS

Porto Alegre, RS, Brazil, 91509-900

Office phone: 55 51 33087220

Fax: 55 51 33087304

fernanda.stedile@ufrgs.br



Area of Research / Teaching: Materials for Nanoelectronics / Physical-Chemistry

Professional Preparation:

<u>Institution</u>	<u>Degree</u>	<u>Major/Area</u>	<u>Degree/Year</u>
UFRGS		Chemistry	B.Sc. / 1987
UFRGS		Physics	M.Sc. / 1990
UFRGS		Sciences	Ph.D. / 1994

Ph.D. Thesis Supervisors:

Wido H. Schreiner (IF-UFRGS), Fernando L. Freire Jr. (DF-PUC-Rio), Serge Rigo (Université Paris 7)

Appointments

<u>Title</u>	<u>Organization</u>	<u>Years</u>
Associate Professor	by Public Contest in the Physical-Chemistry Department of the Chemistry Institute of UFRGS	1990 -
Researcher	Brazilian National Research Council (CNPq)	1995 -

Peer Reviewed Article Publications: 135 (source Web of Science)

Sum of the Times Cited: 1542

h-index: 21

Peer Reviewed Book Chapters: 19

Deposited Patent: 1

Referee to International Journals: 7

Member of Committee of International Conference: 1

Co-organizer of International Conferences: 4

Number of Post-Docs Supervised: 1

Number of Ph.D. Students Supervised: 3

Number of Masters Students Supervised: 4

Current Graduate Students: 3

Current Undergraduate Students: 1

Addresses in the www:

<http://www.researcherid.com/rid/B-8215-2008>

<http://lattes.cnpq.br/8312079399403127>

<https://plone.ufrgs.br/fqsis>;

<http://implantador.if.ufrgs.br>



VIRGINIA S. T. CIMINELLI

*Chemical Engineer (UFMG), M. Sc. (UFMG),
Ph.D. (1987, Penn State)*

*Professor, Department of Metallurgical and Materials
Engineering (UFMG)*

Research interests: thermodynamic, kinetics and molecular modelling of reactions in mineral-water systems, with emphasis on metal sulfide dissolution, arsenic fixation and electrowinning of base metals.

ciminelli@demet.ufmg.br

Virginia S. T. Ciminelli is Professor at the Department of Metallurgical and Materials Engineering, Universidade Federal de Minas Gerais – UFMG. Chair of the National Institute of Science and Technology on Minerals, Water and Biodiversity, INCT-Acqua (18 Universities/Research Centres from Brazil and abroad, 8 state agencies and 7 industries). Member of Brazilian Academy of Sciences. Admitted to the National Order of Scientific Merit. 1A research level by the National Council for Scientific and Technological Development (CNPq). Member of the Metallurgical, Materials and Mining Committee/CNPq. Member of the National Management Committee on Water Resources at the Ministry of Science, Technology and Innovation. Member of the Board of Trustees of Fundep – Foundation for Research Development. Member of the advisory committee of the Minas Gerais State Program on Mineral Technologies and the Geopark Quadrilátero. Leadership in collaborations in multidisciplinary projects with a number of institutions and industries in Brazil and abroad (Australia, Europe, North and South America). Member of editorial boards (Hydrometallurgy, Journal of Materials Research and Technology, *Brasil Mineral*), and invited editor of special issues of journals (Minerals Engineering, Hydrometallurgy, Journal of Metals) and book series (Process Metallurgy 11A, Elsevier). Over 200 publications and supervision of 46 M.Sc. and Dr. theses (concluded), post-doctoral fellows (11), and 70 undergraduate students. Former and first chair of the Center of Microscopy–UFMG. Former Head and Vice-Head of the Metallurgical and Materials Engineering Department at UFMG. Former member of the Spectroscopy Committee of the Brazilian Synchrotron Light Laboratory - LNLS. Former member of the Scientific Committee of the Technological Park of Belo Horizonte. Former Chair, Millennium Science Initiative: Water – a mineral approach. Former nodal point Ibero–American Program for Science, Technology and Development Iberoarsen. Former member of the advisory committees research councils (CNPq, Research Foundation of the State of Minas Gerais) and others. Former member of the Aqueous Processing Committee of the American Minerals, Metals and Materials Society - TMS/AIME. Former Director of the Non-ferrous division of the Brazilian Association of Metallurgy and Materials-ABM. Organization of various scientific events, standing out the 1992 III Southern Hemisphere on Mineral Technology and the 2001 edition of the 14th International Biohydrometallurgical Symposium (first time held in Brazil). Vice-president of the 2012 Hydroprocess (Chile). Member of the Technical/Editorial Board of International Congress Series (e.g. Hydrometallurgy, IBS-International Biohydrometallurgical Processing, Arsenic, Hydrocopper). Invited Lecturer in national and international events. Recipient of the 2004 GEMS Earth and Mineral Science Alumni Achievement Award from the Pennsylvania State University, 2008 FUNDEP/UFMG award (for significant contributions to the progress of Science, Letters and Arts and for leading the development of area), and 2011 *Mercosul* Award of Science and Technology 2011, Integration category, for the work "The arsenic issue in *Mercosul*". First female to achieve a full professorship position at the School of Engineering/UFMG, first female to be elected for the engineering section of the Brazilian Academy of Sciences.

Virginia S.T. Ciminelli

Dept. of Metallurgical and Materials Engineering
Universidade Federal de Minas Gerais-UFMG.

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Ana Beatriz Gorini da Veiga

Associate Professor at Universidade Federal de Ciências da Saúde de Porto Alegre (UFCSPA)

Coordinator of the Center for Technology Innovation of UFCSPA (NIT-Saúde)

E-mail: anabgv@ufcspa.edu.br

Area of Research/Teaching

Molecular Biology

Biography

Ana Beatriz Gorini da Veiga is an associate professor of Molecular Biology at the Federal University of Health Sciences of Porto Alegre (Universidade Federal de Ciências da Saúde de Porto Alegre, UFCSPA) in Brazil and the Coordinator of the Center for Technology Innovation in Health of that same University (NIT-Saúde, UFCSPA). Her research interests are focused on molecular epidemiology of human pathogenic viruses and in understanding how changes in viral genomes contribute for infection and disease progression.

Ana was born in 1976 in Santa Catarina, Southern Brazil. Both parents are retired biologists and university professors, from whom she inherited her passion for Life Sciences.

Ana received Bachelor Degrees in Biological Sciences and in Cellular, Molecular and Functional Biology from the Federal University of Rio Grande do Sul (UFRGS), Brazil. She received a Master and a Doctor Degree from the Graduate Program in Cellular and Molecular Biology at the Center of Biotechnology of UFRGS. During her Doctorate she spent over one year at the National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH-USA), developing her research on anti-hemostatic factors from animal venoms. In 2005 she finished her Doctorate and she was awarded the National Scientist of the Year Prize in Brazil (Prêmio Jovem Cientista – CNPq).

Ana became a professor at UFCSPA in 2006, where she teaches Molecular Biology, Bioinformatics, Molecular Virology and other classes for Undergraduate and Graduate Programs. She is also professor at the Graduate Program of Pathology and Graduate Program of Medicine: Hepatology; at the moment she supervises 2 Pos-doc fellows, 3 Master students, 3 Doctorate Students and 3 undergraduate students, all of them working in research projects on human pathogenic viruses with her at the laboratory.

Since 2012 she is the coordinator of the Center of Technology Innovation in Health at UFCSPA (NIT-Saúde), managing Intellectual Property and Technology Transfer Policies at the University.

Besides her academic career, Ana enjoys long-distance running. She has won many races, including a First South American in the Paris International Marathon in 2002, Third Place in the Marathon in the Parks in Bethesda in 2004, First Place and female record in the International Marathon of Uruguay in Punta del Este in 2010, First Place in the Guayaquil Half Marathon in 2012, and other races. She has a column about Science and Running in a Brazilian running site.

Ana Beatriz Gorini da Veiga E-mail: anabgv@ufcspa.edu.br anabgv@uol.com.br

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Fiona M. Doyle

Executive Associate Dean, College of Engineering, University of California, Berkeley
Professor, Department of Materials Science and Engineering, University of California, Berkeley
Donald H. McLaughlin Professor of Mineral Engineering, University of California, Berkeley
E-mail: fmdoyle@berkeley.edu

Area of Research/Teaching

Professor Doyle's research focuses on solution chemistry in the processing and behavior of minerals, materials, wastes and effluents. She is interested in thermodynamics, kinetics, mass transfer, and electrochemical processes. The applications range in scale from the templated precipitation of nanoscaled structures, through energy storage, chemical mechanical planarization in the electronics industry and classical hydrometallurgy to the remediation of contamination at abandoned and inactive mine sites. Professor Doyle has taught undergraduate and graduate courses relating to engineering chemistry, mineral engineering, surface and colloid properties of materials, solution processing of materials, corrosion, and electrochemistry.

Biography

Fiona Doyle obtained her bachelor's degree from the University of Cambridge, and her master's and doctorate in hydrometallurgy from Imperial College, University of London. She joined the faculty at U.C. Berkeley in 1983 and was appointed to the Donald H. McLaughlin Chair in Mineral Engineering in 1998. She served as Chair of the Department of Materials Science and Engineering from 2002 to 2005, and Executive Associate Dean of the College of Engineering at Berkeley from 2005 to 2009, and 2011 to the present. From 2009 to 2011 she was Vice Chair and Chair of the Berkeley Division of the Academic Senate. Professor Doyle's research focuses on solution chemistry in the processing and behavior of minerals, materials, wastes and effluents. The applications range in scale from the templated precipitation of nanoscaled structures, through chemical mechanical planarization in the electronics industry to the remediation of contamination at abandoned and inactive mine sites. Professor Doyle has taught undergraduate and graduate courses relating to engineering chemistry, mineral engineering, surface and colloid properties of materials, solution processing of materials, corrosion, and electrochemistry.



Denise Croce Romano Espinosa

Associate Professor Department of Metallurgical and Materials Engineering University of Sao Paulo E-mail: espinosa@usp.br	Address: Av. Prof. Mello Moraes, 2463 São Paulo – SP Brazil Zip code 05508-030 Phone number: +55 11 3091-6083
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Area of Research/Teaching

Recycling and Waste Treatment

- Aluminum, batteries, waste of electro and electronic equipment (WEEE)
- Solid waste: recycling and reuse of steelmaking dusts and slags. Co-processing of solid wastes

Extractive Metallurgy

- extraction of metals
- general ore and waste hydrometallurgical processing
- bioleaching of printed circuit boards
- solvent extraction of metals from solutions obtained from the leaching of ores and wastes.

Biography

Education background

Metallurgical Engineer, University of Sao Paulo (1995)

MSc. Metallurgical Engineering, University of Sao Paulo (1998)

- Co-processing of galvanic sludge

PhD Metallurgical Engineering, University of Sao Paulo (2002)

- Battery recycling

I am doing research in the area of recycling and waste treatment since 1996, just after my graduation. During the PhD, I spent 8 months at MIT with the supervision of Prof. Claude H. P. Lupis. After the PhD graduation I enrolled postdoctoral program at USP. Between 2007 and 2008, I was a substitute professor at the Department of Metallurgical and Materials Engineering of the University of Sao Paulo. In 2009, I became Associate Professor at the same department. Nowadays, I am teaching the subjects related with extractive metallurgy, recycling and waste treatment. I am also acting as a consultant in projects with local industries.



Delphine Kasimira Farmer

Assistant Professor

Department of Chemistry

Colorado State University

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Atmospheric Chemistry

I study biosphere-atmosphere interactions of air pollution and climate-relevant molecules. In particular, we build new instrumentation and develop new approaches to measuring and interpreting fluxes of reactive trace gases and particles over ecosystems. My group studies the chemical mechanisms behind interactions between biogenic and anthropogenic molecules, and how this can enhance air pollution and particle formation. I am interested in extending this work in the plant ecology and mechanisms responsible for emission of chemically-relevant molecules, and in understanding how plants interact with air pollution.

Biography

McGill University	Chemistry	BSc, 2000
University of California, Berkeley	Environmental Science, Policy and Management	MS, 2001
University of California, Berkeley	Chemistry	PhD, 2006
University of Colorado, Boulder	Atmospheric Chemistry	Post-doctoral Fellow, 2007-2011
Colorado State University	Chemistry Department	Assistant Professor 2011 - present

Picture



Name: Roseli Golfetti

Current Appointment: Assistant Professor, July 2010- present

Division of Life Sciences, SAS, Rutgers, The State University of New Jersey, Piscataway, NJ

E-mail: Golfetti@biology.rutgers.edu

Area of Research/Teaching

We are investigating the cardiovascular effects of acetaminophen (e.g. Tylenol) on the mammalian myocardium. Our research focus has been myocardial ischemia/reperfusion injury and myocardial infarction. The most common type of myocardial infarction is due to an obstruction caused by excess of lipids, formation of plaques and/or presence of clot in the coronary arteries causing a decreased or cessation of blood perfusion to the heart; consequently causing myocardium infarction. Heart-related diseases in the U.S. are still increasingly common because of obesity, diabetes and the metabolic syndrome. The findings of our research suggest that acetaminophen could be potentially a useful agent for minimizing the damage caused by myocardial infarction, arrhythmias and related heart diseases in humans. We have investigated the effects of Tylenol as a potential cardioprotective agent against ischemia/ reperfusion injury and have not only studied its physiological effects but have also reported histological findings. For example our laboratory has reported that mitochondria and other subcellular organelles, important to the vital function of cardiac myocytes, are protected by acetaminophen. The organization of the contractile elements in the heart are better preserved during injury in the presence of acetaminophen. In addition, we have reported anti- apoptotic actions of acetaminophen in ischemia/ reperfusion injury, our data support some evidences that acetaminophen is able to prevent opening of the mitochondrial permeability transition pore. This prevents cytochrome c from leaving the mitochondria and preserves both mitochondria and cellular integrity.

My first experience teaching started early in my career, when I was invited by my master degree advisor to join him to teach human physiology and neurophysiology. At that time, I taught physiology to psychology majors in a private institution of higher education. My second position for teaching physiology (both lecture and laboratory classes) was at the Pontifical Catholic University of Campinas. There I had the most intense experience of teaching physiology to undergraduate students of diverse majors (biology, medicine, dentistry, physiotherapy, nutrition, nurse, etc.). In 1984; I became Assistant Professor at Universidade Estadual Paulista (Unesp), where I worked for one year. I left Unesp to continue working as an Assistant Professor at the University of Campinas (Unicamp), Sao Paulo, Brazil. At Unicamp, I worked more than 20 years and there I developed and had the opportunity to conducted cardiovascular research and taught physiology and courses related to the field to undergraduate and graduate students. Since 2008 I teach systems physiology course for large classes of more than 400 undergraduate students at Rutgers University.

Biography

Education/ training

- B.A., Biological Sciences, University of Mogi das Cruzes, São Paulo, Brazil, 1976
- M.S., Biological Sciences- Physiology, Institute of Biology, University of Campinas, São Paulo, Brazil. August 30, 1983
- Ph.D., Physiology, Institute of Biology, University of Campinas, São Paulo, Brazil, April 26, 1996.
- Postdoctoral, Dept. of Cell Biology & Neurosciences, SAS, Rutgers, The State University of New Jersey, Piscataway, NJ, July 1999- 2001

Positions and Employment

- Assistant Professor, Dept. of Biological Sciences, SAS, Rutgers, The State University of New Jersey, Piscataway, NJ, July 2010- present.
- Research Associate, Dept. of Cell Biology & Neurosciences, SAS, Rutgers, The State University of New Jersey, Piscataway, NJ, July 2008- 2010.
- Research Associate, Dept. of Cell Biology & Neurosciences, SAS, Rutgers, The State University of New Jersey, Piscataway, NJ, April 2005- June 2008.
- Associate Professor, Tenure, Dept. of Physical Activity Studies, University of Campinas, São Paulo, Brazil, June 2003- December 2003
- Assistant Professor, Tenure, Dept. of Physical Activity Studies, University of Campinas, São Paulo, Brazil, June 1996 - June 2003.

Honors

- Faculty Compensation Program 2007, 2009, 2010, 2011. Peer evaluation Committee on contributions and merit, Rutgers University.

Selected Peer-reviewed Publications

1. Baliga SS, Jaques- Robinson KM, Hadzimichalis N.M, Golfetti R., Merrill G.F. Acetaminophen reduces mitochondrial dysfunction during early cerebral postischemic reperfusion in rats. *Brain Res.*, v. 10, 1319:142-54, 2010.
2. Jaques- Robinson K.M., Golfetti R., Baliga S.S., Hadzimichalis N.M., Merrill G.F. Acetaminophen is cardioprotective against H₂O₂- induced injury in vivo. *Experimental Biology and Medicine*, v. 233 (10), 1315- 1322, 2008
3. Hadzimichalis N.M., Baliga S.S., Golfetti R., Jaques K.M., Firestein B.R., Merrill G.F. Acetaminophen-mediated cardioprotection via inhibition of the mitochondrial permeability transition pore-induced apoptotic pathway. *Am J Physiol Heart Circ Physiol*. V. 293 (6): H3348- 3355, 2007
4. Merrill G.F., Merrill J.H., Golfetti R, Jacques K.M., Hadzimichalis N.S., Baliga S.S., Rork T.H. Antiarrhythmic properties of acetaminophen in the dog. *Experimental Biology and Medicine*, v. 232 (9), 1245- 1252, 2007.
5. Rork T.H., Spiler N.M., Baliga S.S., Golfetti R., Merrill G.F. New perspectives on acetaminophen. *Current Cardiology Review*, v. 2, (2), pp 131-146, May 2006.
6. Martinelli F.S., Chacon- Mikahil M.P.T., Golfetti R., Martins L.E.B., Lima-Filho E.C., Gallo Junior L. Heart rate variability in athletes and nonathletes at rest and during head-Up tilt, *Braz. J. Med. Biol. Res.*, v. 38, n.4, pp. 639-647, 2005
7. Merrill G.F., Rork T.H., Spiller N.M., Golfetti R. Acetaminophen and myocardial infarction in dogs. *Am J Physiol Heart Circ Physiol*, v. 287 (5): H1913 - H1920, 2004.
8. Golfetti R., Rork T., Merrill G. Chronically-administered acetaminophen and the ischemia reperfused myocardium. *Experimental Biology and Medicine*, v. 228 (6), p. 674 - 682, 2003.
9. Arnold Peckerman, John Lamanca, Bushra Qureishi, Kristina A. Dahl, Roseli Golfetti, Yoshiharu Yamamoto, Benjamin Natelson. Baroreceptor reflex and integrative stress responses in Chronic Fatigue Syndrome. *Psychosomatic Medicine*, v. 65 (5), p. 889-895, 2003.
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Name: *Maria fatima Grossi de Sa*

Researcher at Embrapa Genetic resources and Biotechnology and Professor at Catholic University of Brasilia

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Area of Research/Teaching

Research interest:

Plant Biotechnology, Functional Genomics: Biotic and Abiotic Stresses in Plants, Plant-Pest Molecular Interactions

Plant Genetic Engineering, Bioprospection of genes and proteins applied to agribusiness,

Recombinant proteins applied to the pharmaceutical industry and agribusiness

Teaching

Genetic Engineering of Plants, Plant-Pest Interaction, Plant Biotechnology, Biotechnology training courses

Biography

Maria Fatima Grossi de Sa, PI at Embrapa Genetic Resources and Biotechnology since 1989, is also a Professor at Catholic University of Brasilia since 2004. Currently holds the Coordination of Biotechnology at CAPES (Brazilian Federal Agency for Support and Evaluation of Graduate Education), the Presidency of the Brazilian Society for Biotechnology and is a member of the CAPES International Committee. Dr. Grossi-de-Sa has graduated with a major in Biological Sciences in 1979 from University of Brasilia, obtaining a M.Sc. degree in Molecular Biology from the same University in 1982. In 1987, she earned her 'Doctorat es Sciences' in Molecular Biology at ParisVII University-- France, under Professor Klaus Scherrer supervision. During her Ph.D. studies, she conducted groundbreaking research in the identification of factors involved in eukaryotic gene expression control. These studies led to the discovery of the prosome particle, currently known as proteasome, involved in protein turn-over and degradation. In 1998, as a post-doctoral fellow at Plant Genetic System in Gent - Belgium shifted her career towards plant biotechnology, under Dr. Enno Krebers supervision. During the period from 1995 to 1996, took a sabbatical leave from Embrapa to work at UCSD-San Diego-USA in the exploration of plant defense proteins and plant-insect molecular interactions. Using plant genetic engineering, contributed in the understanding and characterization of molecular domains that are involved in plant inhibitors-insect enzymes interaction specificities. Her research and career places her in the vanguard of prospection and identification studies of plant defense molecules involved in biotic and non-biotic stress. Her discoveries in the field of novel genes and regulatory sequences with potential use in the control of insect-pests, as well as plant drought tolerance, are of particular interest. These studies have granted her research group 10 patent applications in national and international patent offices in the past 5 years, and several publications in international journals with significant reach and impact factors. Dr. Grossi-de-Sa has also contributed in other research lines involving functional genomic studies: (i) Coffee Genome - Embrapa/FAPESP; (ii) Soy Genome - MCT-FINEP; and (iii) insect transcriptome - Embrapa/Monsanto. These studies led to the identification of several genes that have been functionally validated and are currently being used in the production of genetically modified plants (cotton, soy, coffee and sugarcane) via protein overexpression and/or gene silencing, aiming pest control and drought tolerance. The results of her research, compiled in more than 130 scientific papers (index h=26), 13 book chapters and 15 patents, have led to the development of biotechnological processes and products, with significant contributions to the success of biotechnology applied to agriculture. She is also classified as researcher 1-B at Brazilian National Research Council (CNPq), has coordinated several research projects at Embrapa, FAP-DF and CNPq. Currently, she coordinates an research project funded by MCT (Ministry of Science and Technology/CNPq) aiming the development of GM cotton plants harboring resistance to the cotton boll-weevil, the most damaging insect for Brazilian cotton production. Dr. Grossi-de-Sa is also thesis/dissertation adviser at University of Brasilia - Graduate Program in Biological Sciences and Molecular Biology, Catholic University of Brasilia - Graduate Program in Genomic Sciences and Biotechnology and at Rio Grande do Sul University - Graduate Program in Molecular and Cellular Biology. She has been the dissertation adviser of 30 Ph.D.'s and 26 M.Sc.'s, and currently coordinates the research in the Plant-Pest Molecular Interactions Laboratory at Embrapa Genetic Resources and Biotechnology.



Name: *Wang Shu Hui*

Current Appointment: Associate Professor 3

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Area of Research/Teaching

Polymeric materials/Polymeric materials and materials science

Biography

Wang Shu Hui was born in Chang Hua in Taiwan, however her family decided to emigrate and she grew up in Brazil. She received a B. S. degree in Chemical Engineering from the State University of Rio de Janeiro and attended the graduate program of Polymer Science and Technology at the Federal University of Rio de Janeiro (UFRJ), where she obtained her Master degree and Doctor in Science degree in 1995, after staying 18 months at the University of Pisa, Italy. She also spent one year at the University of Massachusetts at Amherst as a pos-doc fellow. Before joining the Polytechnic School of the University of Sao Paulo (USP) in 1998, she conducted research projects at Pirelli Cables (8 years), UFRJ (5 years) and Federal University of São Carlos (2 years). Now she is an Associate Professor 3 at USP and her research interests focus on biodegradable polymer and photo- and electroactive polymers.



Christine Keating

Professor of Chemistry

Pennsylvania State University

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Research areas:

Materials Chemistry, Interfaces, Biophysical, Self- and Directed Assembly of Nano- and Microparticles.

The Keating lab is interested in construction of functional materials from the bottom up. Finding inspiration in cell biology and materials science, our research aims to bring new approaches to this task. Major focus areas include (1) Compartmentalization in artificial cells based on aqueous phase separation, and (2) Assembly of multicomponent, anisotropic particles. Our artificial cell work combines biophysical and soft matter perspectives to design and investigate experimental models of intracellular environments, in the hopes of learning about biological cells, both modern and ancient. In the area of particle assembly, our interests encompass both fundamental understanding of assembly processes and efforts to develop new ways to incorporate functional materials and biomolecules onto silicon integrated circuit microchips.

Teaching: Courses taught include: general chemistry, organic chemistry for nonmajors, transition metal chemistry, surface chemistry, and nanoscience.

Biography

Christine D. Keating received her B.S. in Biology and Chemistry from St. Francis College (Loretto, PA) in 1991 and her Ph.D. in Chemistry from Pennsylvania State University in 1997. She is currently a Professor of Chemistry at Pennsylvania State University and is affiliated with the Materials Research Institute, the Huck Institute for Life Sciences, and the Penn State Cancer Institute. Her work at the interface of materials science, chemistry, and biology has included nano/microparticle assembly, biodetection, and experimental models of living cells based on aqueous phase separation. Dr. Keating is author or coauthor of over 80 scientific articles. She has been honored as a Sloan Research Fellow, Beckman Young Investigator, Camille Dreyfus Teacher-Scholar, and recipient of an NSF CAREER award. Dr. Keating was named the Unilever Outstanding Young Investigator in Colloid and Surfactant Science (2004), and the Bodil Schmidt Nielsen Fellow & Bioengineer in Residence at Mount Desert Island Biological Laboratory in 2010.

February 12-14, 2013 Boston, MA



Kimberly A. Kelly, PhD is an Associate Professor of Biomedical Engineering at the University of Virginia in Charlottesville, VA. Kim received her bachelor's degree in Chemistry from Hamilton College in upstate NY, and her PhD from the University of Utah under the guidance of Dr. David Jones, PhD. Her thesis was using genomics and proteomics based approaches to develop diagnostic reagents for colon cancer. After obtaining her PhD, Kim took a postdoctoral fellowship position at the Center for Molecular Imaging Research at MGH, directed by Ralph Weissleder, under the guidance of Jennifer Allport Anderson. Under Dr. Allport Anderson's guidance, Kim developed a VCAM-1 targeted imaging agent and was able to monitor VCAM-1 expression in mouse models of atherosclerosis. Further, she described a new interaction between VCAM-1 and SPARC that facilitates efficient leukocyte trafficking. In 2004, she was promoted to instructor of Radiology and in 2008 Assistant in Radiology at MGH. In September of 2008, Dr. Kelly joined the BME faculty at the University of Virginia as an Assistant Professor. In 2012, she was tenured and promoted to the rank of Associate Professor. Dr. Kelly is a member of SNMMI and is on the Board of Directors for the SNMMI Center for Molecular Imaging Innovation and Technology, the American Pancreatic Association, and AACR. She is also on the editorial board of the American Journal of Nuclear Medicine and Molecular Imaging and the journal *Frontiers in Oncology*. She was named a William Guy Forbeck Scholar in 2005 and awarded an AACR-Pancreatic Cancer Action Network Career Development award in 2007. Dr. Kelly's research interests include the identification of biomarkers and development of molecularly targeted imaging agents for the detection of various cancer disease processes. For example, through phage display screening, Dr. Kelly identified and validated plectin-1 as a novel biomarker for pancreatic ductal adenocarcinoma, a disease with less than a 5% 5 year survival rate. Further, she has developed a clinically relevant SPECT based imaging agent that will hopefully allow the detection of both primary and metastatic pancreatic cancer. She has over 35 peer-reviewed and invited publications and has served as a reviewer for numerous journals. Dr. Kelly has been dedicated to molecular imaging graduate and undergraduate education. In her first year at UVa, Dr. Kelly developed a Nanomedicine concentration in the Engineering School that consists of minors in BME, Materials Science, and Chemistry. In addition, she has developed two new classes: Nanomedicine, an advanced 4th year class for undergraduates, and Medical Imaging, an advanced elective for Engineering graduate students. Both focus on the engineering and design of instrumentation and imaging agents.



LINNYER BEATRYS RUIZ AYLON

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Area of Research/Teaching

Invisible Computing Engineering

Wireless Sensor Networks

Ubiquitous Computing

Education and Innovation

Biography

Linnyer Beatrys Ruiz Aylon is an innovation advisor, and Computer Science Professor at State University of Maringá (UEM), Brazil. Linnyer was also elected by her peers as Counselor of the of the Brazilian Society of Microelectronics. She is Member of the Brazilian Society of Microelectronics (SBMICRO), Member of The Institute of Electrical and Electronic Engineers (IEEE), and Member of the Brazilian Computing Society (SBC).

Professor Linnyer is a Computer Engineer. She holds a PhD in Computer Science received from Federal University of Minas Gerais, Brazil, 2003 and a M.S degree in Electrical Engineering and Industrial Informatics received from Technological University of Paraná (UTPR), 1996.

She is a member of a committee comprised of 5 leaders that manages the National Institute for Science and Technology of Micro and Nanoelectronics Systems, INCT NAMITEC. This group is composed of 137 researchers, 46 of which are CNPq (Brazilian National Council for Scientific and Technological Development) researchers, coming from 27 departments of 23 institutions in 13 states, covering the 5 Brazilian geographic regions.

Currently, she teaches in graduate courses not only at State University of Maringá, but also in the PhD program at Federal University of Minas Gerais (UFMG). So far, her research efforts has lead to 14 master degrees and 02 doctoral thesis concluded. There are also 6 master degrees and 5 doctoral theses in progress. She has published over 12 book chapters and 90 refereed international conference and journal papers. She works a reviewer of several international journals and is member of program committees of several Brazilian and international conferences. Since 1999, when she became the leader of Manna Team - Invisible Computing Engineering Lab, Professor Linnyer has been a member of over 65 Examination Boards for Ph.D. thesis, dissertations, Ph.D. qualification, and undergraduate and graduate monograph).

Currently, she has a fellowship from CNPq (the Brazilian National Research Council), called Productivity Research Scholarship, which is one of the most important CNPq's research incentives.

Her main research efforts are devoted to various aspects of embedded systems, wireless sensor networks, ubiquitous computing, ubiquitous healthcare, and smart cities.

She has a five-years-old son, Don Aylon Ruiz, who has already visited 24 countries. Her husband, José O. Aylon, is a business man. Together, they live in Cianorte, a little city in southern Brazil.



Leda Lunardi

Professor of Electrical and Computer Engineering at NC State University, Raleigh, North Carolina

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Area of Research/Teaching

Traditional electronic devices, optoelectronics, micro electromechanical systems (MEMS), optical communications, biosensors, and building blocks for device modeling and circuit design.

Biography:

Leda Lunardi has been a professor of Electrical and Computer Engineering at North Carolina State University in Raleigh since 2003. She received the B.Sc. and M.Sc. degrees in physics from the University of São Paulo, São Paulo, Brazil, respectively, and the Ph.D. degree in electrical engineering from Cornell University, Ithaca, NY. Prior joining academia, she worked for over 15 years in industry, at AT&T (then Bell) Labs (Murray Hill and Crawford Hill, NJ) and after the split at AT&T Labs research. After a brief stint as Senior Scientist at JDS Uniphase and technical consultant for Defense Advanced Research Projects Agency in Arlington, VA she entered academia. She was the Education and Diversity Director for the NSF-ERC Future Renewable Electric Energy Deliverable and Management (FREEDM) Systems at NC State University from 2008-2011, and the Director of Graduate Programs during the academic year of 2007-2008 for the ECE Department, one of the largest ECE graduate programs in the southeast of the USA. From 2005-2007, she served as a program director for the Electrical, Cyber and Communication Systems (ECCS) Division, at the National Science Foundation (Engineering Directorate) in Arlington, VA. More recently she is part of the NSF Nanosystems ERC for Advanced Self-Powered Systems of Integrated Sensors (ASSIST) at NC State. She has authored and co-authored more than 100 publications and conference proceedings, been granted 5 patents, and given invited talks and short courses at conferences. She is an avid IEEE technical volunteer for over two decades, and has continuously served in technical and executive conference committees, government ad hoc committees for grants, projects reviews, scholarships and fellowships. At NC State she chairs undergraduate research grants and scholarships, and has sponsored over 60 undergraduate researchers for the last 4 years. She co-shared the 2000 IEEE/LEOS Engineering Achievement Award and has been an IEEE Fellow since 2002.



Name: *Lúcia G. Lohmann*

Current Appointment: Assistant Professor, Universidade de São Paulo, Instituto de Biociências, Departamento de Botânica, Rua do Matão, 277, 05508-090, São Paulo, SP, Brazil.

Other Positions: President of the Association for Tropical Biology and Conservation (ATBC); Research Associate at the Center for Conservation and Sustainable Development, Missouri Botanical Garden, USA; Research Associate at The New York Botanical Garden, USA.

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Area of Research/Teaching

Plant Systematics, Evolutionary Biology, Biogeography, and Conservation.

Biography

I was born and raised in São Paulo (Brazil). From an early age, I was fascinated by the wealth and diversity of nature in the tropical rainforests of my country. I subsequently studied Biology at the University of São Paulo, and then spent eight years in the USA conducting my M.Sc., Ph.D., and a Post-doc at the Missouri Botanical Garden, during which time I applied geospatial tools for the analysis of evolutionary, ecological, and conservation questions in plant biology. During the past 20 years, I conducted extensive fieldwork in Brazilian Amazonia and throughout Latin America (e.g., Peru, Surinam, French Guiana, Costa Rica, Colombia), and research at major European Herbaria (e.g., Berlin, Munich, Geneva, Kew, Belgium, Paris, Vienna). The exposure to different cultures and realities has allowed me to gain a broad understanding of some of the main research/conservation priorities and education needs around the World. My international and multi-disciplinary training has expanded into my research, which has been truly integrative in nature. In particular, my research integrates components of ecology, evolutionary biology, systematics, paleontology, and molecular biology to further understand patterns of plant evolution and biogeography in the Tropics. In addition, I use the information derived from these studies for the establishment of conservation plans in the New World. Most of my research has focused on the plant family Bignoniaceae, which includes prominent Tropical Forest trees and the most abundant and diverse clade of lianas in the Neotropics (tribe Bignonieae). The systematics, ecological, evolutionary, and biogeographic research that we have conducted with this plant family has rapidly turned the Bignoniaceae into one of the greatest models for understanding patterns of plant diversification in the Tropics. Apart from my ongoing research, I serve as Associate Editor for the journals *Systematic Botany*, *Taxon*, *Phytotaxa*, and *Phytokeys*, as well as serve at the Advisory Boards of *Flora Neotropica*, *bioGENESIS (DIVERSITAS)*, *Harris World Ecology Center* at *UM-St. Louis*, and the *International Association of Plant Taxonomists (IAPT)*.



Name: **HELENA B. NADER**

Current Appointment: Professor and Head, Molecular Biology Program
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Area of Research: Glycobiology (Molecular and Cell Biology)

Researcher ID: D-9253-2012

URL: <http://www.researcherid.com/rid/D-9253-2012>

Google scholar: <http://scholar.google.com.br/citations?user=-v0e0R4AAAAJ&hl=pt-BR>

Area of Teaching: Biochemistry and Molecular Biology

Biography

Helena B. Nader has a bachelor of science degree (biomedical sciences) from the Federal University of São Paulo (Unifesp) (1970), bachelor of education in biology from the University of São Paulo (1971), doctor of sciences in Molecular Biology from Unifesp (1974), postdoctoral at the University of Southern California (1977) with a grant from Fogarty (NIH). She is a full professor at Escola Paulista de Medicina of Unifesp (1989), Fellow of CNPq (National Council level 1A, member of the São Paulo Academy of Sciences (1989) and the Brazilian Academy of Sciences (1999), Commander of the National Order of Scientific Merit (2002), Class Grand Cross of the National Order of Scientific Merit (2008), Scopus Elsevier Capes Award (2007), Professor *Honoris Causa* of the Federal University of Rio Grande do Norte (2005), among other dignities and prizes. She has held various administrative functions including the Dean of Undergraduate Program (1999-2003) and the Graduate and Research Program of Unifesp (2007-2008). She is currently president of the Brazilian Association for the Advancement of Sciences (SBPC). She is an advisor for several Brazilian and international scientific journals as well as granting agencies. She has been or still is a visiting professor at Loyola Medical School (Chicago, USA), W. Alton Jones Cell Science Center (NY, USA), Istituto Scientifico G. Ronzoni (Milan, Italy) and Opocrin Research Laboratories (Modena, Italy). She has experience in biochemistry, with emphasis on glycobiology and cellular and molecular biology of proteoglycans and glycosaminoglycans, particularly heparin and heparan sulfate. Her work is related to structural analysis and the biological functions of these compounds. Even though her work is basically in fundamental sciences, several results of her research had been translated into medical applications, which nowadays are classified as translational science. In function of her knowledge on structure function relationship of glycosaminoglycans, especially heparins, she has been a consultant for different Brazilian and international pharmaceutical companies. She has supervised 45 Master of Science and 43 PhD



Name: *Denise de M. Neddermeyer*

Current Appointment: Director of International Affairs of CAPES

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Area of Research/Teaching: Main areas of interest are Policy Making in Education, International Cooperation, Graduate Education, International Mobility, Education Abroad, Capacity Building in Science Technology and Innovation.

Biography:

Dr. Denise Neddermeyer is presently the Director of International Affairs of CAPES, The Brazilian Federal Agency for Support and Evaluation of Graduate Education, a national foundation linked to the Ministry of Education in Brazil.

In this position, Ms. Neddermeyer is in charge of supervising matters linked to the negotiations and implementation of bilateral agreements for academic and educational collaboration between Brazil and other countries. Her duties include selecting and granting of graduate and undergraduate scholarships abroad, as well as funds for joint research projects. Dr. Neddermeyer's work team is responsible for the management of the recently launched national program, Science without Borders, for training up to 100,000 Brazilian students in the highest ranked universities abroad, mostly in the STEM fields in order to build a workforce to respond to the demands of the Brazilian fast changing economy and promote innovation.

Dr. Neddermeyer has vast experience with administrative management issues, performing several key roles at CAPES and in the Ministry of Education such as Chief of Cabinet and Management Director of CAPES. She has also worked as an assistant to the Minister of Education and to the National Council for the Development of Science and Technology-CNPq in Brazil.

In addition, Ms. Neddermeyer has studied in Asia, Europe and the United States which has enabled her to meet many people of diverse backgrounds. She is active professionally with international collaborations and academic mobility issues. Her advanced degrees are from the Institute of Education, University of London, in Policies Studies in Education and in Education. She was also a Fellow Teacher Trainee at the University of Education of Fukuoka, Japan, with a scholarship granted by Mombusho, the Japanese Ministry of Education. Early in her career, she was an Arts and Design secondary teacher in the local public schools in Brasilia, the capital of Brazil.

Most recently, Dr. Neddermeyer has spent an year in the U.S. based at Pennsylvania State University, at the College of Education, as a Humphrey Fellow for a professional enhancement experience. Her project of study was mostly focused on educational policy-making in the U.S. public sector. Specifically, she examined educational reforms towards building up capacity linked to effective teaching in K-12 schools in the STEM fields. She is engaged in strengthening an academic network of sustainable collaboration between Brazilian and American faculty, research and institutions.



Ofelia Ana Olivero, PhD, ATS

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Biography

Dr. Ofelia A. Olivero obtained her PhD in cytogenetics in Argentina and subsequently joined the National Cancer Institute where she has worked since 1987. Dr. Olivero's initial work focused on the relationship between cytogenetics and cancer, and she was the first person to map DNA adducts on chromosomes using antibodies against DNA adducts. Later she focused on transplacental carcinogenesis induced by the nucleoside analogs that are mainly used in AIDS therapy. Together with her colleagues, she showed for the first time that the nucleoside analog used in the earliest AIDS therapy was a transplacental carcinogen in mice. She is currently a Senior Staff Scientist in the Laboratory of Cancer Biology and Genetics at NCI where she is applying molecular techniques to investigate mechanisms of nucleoside analog-induced centrosomal amplification and aneuploidy.

She has been instrumental in the creation of the Staff Scientists/Staff Clinicians Organization at the National Cancer Institute, and after chairing the organization for 2 years continues to be active on its steering committee. She was the chair of the Executive Board of the Genetic Toxicology Association and is now the Chair of the Excellence in Science Award committee of that organization.

Dr. Olivero has been an active member of the NIH-Hispanic Employee Organization since 1999 and served as president on the period 2005-06. She is a member of the Minorities in Cancer Research group as well as Women in Cancer Research and Women in Toxicology. She is Vice president of the Environmental Mutagenesis and Genomics Society where she co-chairs the Membership and Career development committee, the Mentoring program, is active in the Women in EMGS and oversees the Special Interest Groups. She chaired the task Force to create the Mentoring Program and is a Council Member. She is the author and co-author of 70 scientific articles and more than 180 submissions to conferences. Dr. Olivero received many awards among those the "Leading Diversity Award" given by the NCI Director in appreciation of efforts furthering diversity and equal employment opportunity.

Dr. Olivero commitment to the empowerment of minority women and support of women in STEM has been evidenced by her participation in numerous efforts to increase representation of females in science. She was invited by the Department of State to represent US in Brazil, to attend workshops and deliver talks in Colombia, she gave mentoring workshops in Chile and Argentina and has been pioneering the concept of Mentoring in the interdisciplinary sciences, and she is currently writing a book on that topic.

She lives in Maryland with her husband and three daughters.



R. Lee Penn

Associate Professor of Chemistry

Institute on the Environment Fellow

University of Minnesota

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Area of Research/Teaching

TEACHING: General chemistry, freshman seminars (bikes, nanotechnology, environmental topics), Nanoparticle Science and Engineering, Materials Characterization, and Green Chemistry.

RESEARCH: Nanoparticle growth mechanisms, aggregation, environmental chemistry, green nanotechnology, materials for solar energy conversion

Biography

Lee Penn completed her B.S. in Chemistry at Beloit College in 1992. She then went on to do her graduate work at the University of Wisconsin - Madison, earning her Ph.D. in Materials Science in 1992 under the direction of Prof. Jill Banfield. She then spent two years working at the Johns Hopkins University in the Department of Earth and Planetary Sciences and in the Department of Geography and Environmental Engineering. She's been working with nanoparticles since the early 90s and has a passion for understanding their fundamental formation and growth mechanisms, how they are involved in chemical transformations in the environment, and elucidating the link between the physical and chemical properties of nanoparticles and how they participate in a wide range of chemical reactions. Currently, she is an Associate Professor in the Department of Chemistry at the University of MN - twin cities. She has taught a range of courses, including honors general chemistry, My Other Car is a Bicycle (a freshmen seminar), Nanoparticle Science and Engineering (co-taught with faculty from several departments), Materials Characterization, and Green Chemistry. She oversees a research group of eight graduate students and several undergraduates - all working on various topics involving nanoparticles.



Geraldine Richmond, Professor of Chemistry and Materials Science

University of Oregon, Eugene, OR 97403

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Area of Research/Teaching

Research Interests: Understanding the molecular structure and dynamics of interfacial processes that have relevance to environmental remediation, biomolecular assembly, atmospheric chemistry and alternative energy sources; laser spectroscopy and surface science.

Teaching Interests: Development of courses in science literacy for nonscientists, career development courses for emerging and career scientists and engineers.

Biography

Geraldine (Geri) Richmond is the Richard M. and Patricia H. Noyes Professor in the Department of Chemistry and Materials Science Institute at the University of Oregon. Her research using laser spectroscopy and computational methods has made many contributions to our understanding of the chemistry and physics that occurs at complex surfaces and interfaces that have relevance to important problems in energy production, environmental remediation, atmospheric chemistry and biomolecular surfaces. Awards for her scientific accomplishments include the American Chemical Society (ACS) Garvan Medal, the Spectrochemical Analysis Award, the Spiers Medal of the Royal Society of Chemistry, a Guggenheim Fellow, the Bomem-Michaelson Award, the ACS Joel Henry Hildebrand Award in the Theoretical and Experimental Chemistry of Liquids and the APS Davisson-Germer Prize in Surface Physics. She is a fellow of the American Physical Society, the American Chemical Society, the American Association of the Advancement of Science, the Society for Applied Spectroscopy, the Association for Women in Science, the American Academy of Arts and Sciences and is a member of the National Academy of Sciences. Her most recent appointment is to the national Science Board. In addition to her research she is the founder and chair of COACH, a grass-roots organization assisting in the advancement of women faculty in science and engineering. She has been honored for these efforts by the Presidential Award for Excellence in Science and Engineering Mentoring, the ACS Charles L. Parsons Award, the ACS Award for Encouraging Women in the Chemical Sciences and the Council on Chemical Research Diversity Award.



Sara Teresinha Olalla Saad
Full Professor hematology-Hemotherapy
Director of Center of Hematology and Hemotherapy
Internal Medicine Department, School of Medicine
University of Campinas

Research Interests & Accomplishments: chronic anemias – clinical and molecular-
Educational Interests: internal medicine, research fellow training , including graduating and
undergraduating students

Biography

Professor Sara Teresinha Olalla Saad obtained her BSc degree in Medicine from the Faculty of Medicine of Jundiai, São Paulo, Brazil and her PhD from the University of Campinas. Her Post-Doctor Training was carried out at 1991 Tufts University - St. Elizabeth Hospital of Boston - Dr. Jiri Palek's, and Beth Israel Hospital of Boston - Dr. Daniel G. Tenen's and at Institut National de La Santé Et de La Recherche Médicale with Prof. Y. Beuzard's in 1999. Currently, Professor Sara T. Olalla Saad is Full Professor in Hematology and Hemotherapy at the University of Campinas. The main focus of Professor Sara's research is clinical and molecular investigation of chronic anemias, including hereditary anemias such as sickle cell anemia, glucose 6 phosphate dehydrogenase deficiency, spherocytosis and elliptocytosis , amongst others, and acquired anemias such as myelodysplasia, carential anemias, and aplastic anemias In 2010, Professor Sara was the recipient of the SCOPUS BRASIL 2010 AWARD, for noteworthy scientific production indexed at SciVerse Scopus Data base, granted by Elsevier S&T, and in 2009 the ANÁLISE MEDICINA AWARD 2009 as one of the Most Admired Professionals in Hematology. Professor Sara is currently MEMBER OF THE BRAZILIAN ACADEMY OF SCIENCES.



Name Cynthia L. Sagers

Current Appointment Professor, Associate Vice Provost for Research, University of Arkansas

E-mail: csagers@uark.edu

Area of Research/Teaching

Plant evolutionary ecology

Biography

Cynthia Louise Sagers

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Cynthia L. Sagers serves as the Associate Vice Provost for Research and Economic Development for the University of Arkansas (UofA). She is a professor of Biological Sciences and has served at the UofA since 1994. She was a post-doctoral fellow at the University of California, Berkeley, and holds a Ph.D. in Biology from the University of Utah, and B.A.s in Biology and General Science from the University of Iowa.

Dr. Sagers has more than 20 years of experience in research and education in plant evolutionary ecology. She has been involved with numerous NSF, EPA and USDA grants and contracts. Projects include the evolution and ecology of tropical plant species, the evolutionary origins of weedy plants, and the use of stable isotope technologies in ecological research. She has served as Ph.D. supervisor and mentor to underrepresented minority students and as mentor on an NSF Research Experience for Undergraduate (REU) site award in Costa Rica for Native American and Pacific Islander undergraduates.

Dr. Sagers serves as Secretary of the Board of Directors, and Chair of the Membership Committee for the Organization for Tropical Studies (OTS), a consortium of universities and research institutes in the Americas, South Africa and Australia. She has been an instructor on 10 graduate and undergraduate field courses with OTS in Costa Rica/ She is a former Program Officer of the National Science Foundation in the Office of International Science and Engineering (OISE) and the Directorate of Biological Sciences, Division of Environmental Biology (DEB). She served as a Senior Research Associate with the National Research

Council and is a former Fulbright and Smithsonian fellow. Her research is published in international ecology journals including *PLOS One*, *Ecology*, *Oecologia* and *New Phytologist*.

Dr. Sagers's research expertise is in plant evolutionary ecology. A principle focus of research in her lab is gene flow and how it changes the character of wild and weedy populations. Gene flow, with its counterparts natural selection, mutation and random genetic drift, are the primary architects of biological diversity. The importance of gene flow was recognized by early evolutionary biologists and biogeographers, but only recently has it been possible to evaluate in detail the relative importance of gene flow in shaping natural populations. Recent work has focused on the acquisition of beneficial traits by gene flow in two vastly different systems, one a tropical plant genus and its coevolved partners, and the other a domesticated crop and its weedy relatives. Each project adopts a comparative geographic approach. As such, this body of work contributes to a broader understanding of the distribution and diversity of plant species, their histories of divergence, and the implications for the future of diversity given the accelerating rate of species introductions and extinctions.



Susannah L. Scott

Professor of Chemical Engineering, and Professor of Chemistry & Biochemistry

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805-893-5606

Area of Research/Teaching

My research group conducts both fundamental and applied research in surface chemistry and catalysis. We aim to understand the interactions and transformations of molecules at gas-solid and liquid-solid interfaces by creating highly uniform active sites. We apply techniques from organometallic and coordination chemistry, surface science, spectroscopy, kinetics, mechanistic analysis and modeling to investigate, design and reengineer heterogeneous catalysts. The group consists of chemical engineering and chemistry students working closely together to solve problems at the interface of chemistry and reaction engineering. Areas for applications include biomass transformations (renewable fuels and chemicals), small molecule activation (methane and CO₂ utilization), polymers and polymer nanocomposites. I teach courses in Advanced Catalysis, Advanced Inorganic Chemistry, Environmental and Sustainable Chemistry, Reaction Engineering, and Separation Processes.

Biography

I was born in Tokyo and spent much of my childhood living in remote places, ranging from South Africa to the Canadian Arctic. I received my B.Sc. in Chemistry from the University of Alberta (Canada) in 1987, and my Ph.D. in Inorganic Chemistry from Iowa State University in 1991, where I worked with J. Espenson and A. Bakac on O₂ activation and inorganic photochemistry. I was a NATO Postdoctoral Fellow with J.-M. Basset at the Institut de recherches sur la catalyse (CNRS) in Lyon, France, before joining the faculty of the University of Ottawa (Canada) in 1994 as an Assistant Professor of Chemistry. I held an NSERC Women's Faculty Award, a Cottrell Scholar Award, a Union Carbide Innovation Award and was named a Canada Research Chair in 2001. I moved to the University of California, Santa Barbara in 2003, where I currently hold joint faculty appointments in both Chemical Engineering and Chemistry & Biochemistry. I direct the NSF-sponsored Partnership for International Research and Education in Electron Chemistry and Catalysis at Interfaces, a collaboration between UCSB and several prominent catalysis research groups in China. I also direct an NSF-sponsored scholarship program for first-generation college students majoring in Engineering. I co-direct the Center for the Sustainable Use of Renewable Feedstocks (CenSURF) which aims to find new ways to convert biomass and CO₂ to useful products, as well as the CalTeach: Physical Sciences and Engineering (CTPSE) program, which aims to recruit more science and engineering majors to K-12 teaching careers. I am the Chair of the Organic Reactions Catalysis Society and an Associate Editor of the journal *ACS Catalysis*.



Supapan Seraphin Current Appointment: Professor seraphin@email.arizona.edu

Area of Research/Teaching

Research: Carbon nanoclusters, silicon-on-insulator materials, various ceramic and magnetic nanoparticles, mining materials, catalysts, and materials used in Master drawing and related conservation issues.

Teaching: Materials Characterization, Scanning/ Transmission Electron Microscopy and spectroscopy, Materials Properties & Selection, Introduction to Engineering.

Supapan Seraphin is a University of Arizona (UA) Faculty Fellow and a Professor in Materials Science and Engineering Department. She has joint appointments in College of Optical Sciences and in Department of Agriculture and Biosystem Engineering in College of Agriculture and Life Sciences at UA. She joined the University of Arizona since 1990 after receiving her Ph.D. from Arizona State University earlier that year. She has been the Director of Electron Microscopy Facilities for Materials Research at UA since 1990.

She received a 1997 Norbert I. Kreidl Award for Outstanding Teaching for her dedication to undergraduate education and 2001, 2002, and 2009 College of Engineering Award for Excellence at the Student Interface for making students feel they are an essential and valued part of the university community. She was awarded the da Vinci fellowship from College of Engineering in 2008 for her outstanding mentoring capacity and the Outstanding Faculty Award from the University of Arizona Asian American Faculty, Students, and Alumni Association. In 2009, she received an Inclusive Faculty Award for her dedication to increasing diversity. She was a 2011 Fulbright scholar.

Synergistic Activities

- Created the University Spectroscopy and Imaging Facilities (USIF) in 2007, a High-Resolution Electron Microscope Laboratory for Materials Research in 1990 and a Computer Network Lab for Microscopy Education in 1995. The Facilities consist of a high-resolution TEM, two FESEM, two Nature SEM and sample preparation labs. USIF provides structural microanalysis to campus and industries, and stimulates the sense of wonder and spirit of inquiry for students of all ages.
- Direct and coordinate the Research Experience for Undergraduates/Teachers Site from 1993-2009, co-PI from 2010-2012. The program included eight undergraduates/eight teachers to participate in materials research. From 2002-2009, an international REU/RET in Thailand was included in the program.
- Co-PI, NSF Gender Equity program: Girls in the SYSTEM (Sustaining Youth in Science, Technology, Engineering & Mathematics) aiming to improve STEM education for minority and economically underprivileged girls in grades 2-8. The program integrated home, school, and community experiences.
- Co-PI, NSF K-12 Graduate Fellowships for the Advancement of Teaching Tech and Science in Schools. Each year, 8 graduate fellows and 6 undergraduates form partnership with K-12 science education.
- Co-PI, NSF MPS Internships in Public Sc. Ed: Revealing the Invisible Universe: from Nanoscope to Telescope. The UA Flandrau Science Center, the University Sc. & Math Education. Center, AZ State Museum, and the National Optical Astronomy Observatory collaborated to bring science to general public.



Dr. Ian Simon

Foreign Affairs Officer

AAAS Science and Technology Policy Fellow

U.S. Department of State

E-mail: simonid@state.gov

Office of Science and Technology Cooperation

Responsible for the development of policy positions for the Office of Science and Technology Cooperation (STC). Manage and recommend policy positions that address the contributions of science, technology and innovation to larger foreign policy objectives such as economic development, democracy, and gender equality.

Biography

Dr. Ian Simon is a Foreign Affairs Officer and AAAS Science & Technology Policy Fellow in the Office of Science and Technology Cooperation at the U.S. State Department. Prior to joining the State Department, Ian served as public health and science adviser to U.S. Senate Majority Leader Harry Reid. He has lived and worked in Seoul, South Korea as a Visiting Scholar at Science and Technology Policy Institute (STEPI), a South Korean science policy think tank. Ian has spoken at colleges throughout the U.S. on science diplomacy, science policy and alternative science-related careers. Ian earned his Master's degree and Ph.D. in Microbiology from Yale, where he specialized in HIV/AIDS vaccine research, and he received his B.S. degree from the University of Maryland, College Park.



Jean Stockard

Professor Emerita Phone: (541) 346-5005 E-mail: jeans@uoregon.edu

President (2002-03), [Pacific Sociological Association \(PSA\)](#)

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Education

Ph.D., University of Oregon (1974) M.A., University of Oregon (1972) B.A., University of Oregon (1969)

Summary of Interests

Social planning, with a special focus on youth, families, education, and health; the influence of personal characteristics on decision making; research methods and data analysis.

Research Interests

Recent and on-going work includes studying influences on student achievement, including the impact of curricular change and teacher training; examining variables that affect attitudes and behavioral responses to climate change; exploring the influence of the built environment and other environmental characteristics on health and subjective well-being; analyzing the impact of gender and minority status on career advancement, especially in the physical sciences; exploring the role of leisure in the lives of middle aged adults; and analyses of cohort variations in violent behavior, with special emphasis on the relation of social policy to variations in homicide and suicide among youth in the United States and other countries.

Courses and Seminars

Human Settlements, Senior Thesis Seminar, Student Research Colloquium, Applied Social Research, Planning and Social Networks, International Issues in Social Planning, Children and Society, Education and Society.