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Over the past few years, RIT has had an impressive impact with the research, scholarship, and creative work produced by our faculty. This effort is inspiring in both its breadth and depth, and clearly contributes substantially to raising the national and international reputation of RIT. Scholarly activity is integrally fused with the education of our students, and ultimately provides the path by which our students become scholars themselves. The best teacher-scholars engage in scholarship that enhances and complements our educational effectiveness. The impact of the research and scholarly activities our faculty members embark on have impact on the students we teach, our peers within the academic community, and the world. The connections made by RIT faculty through research, scholarship and creative work establish new opportunities for our students, and prepare them for the next stage of their careers. In this way, our academic, commercial or industrial partners also benefit from the progress faculty make within their fields of study. Through the continuing efforts of our teacher-scholars, our students are able to experience first-hand the practices of innovation, critical thinking and problem-solving that will help them to find success both academically and professionally. It is with great pride that I present this report highlighting our faculty’s scholarly achievements during 2013.

Jeremy Haefner, Ph.D.
Provost and Senior Vice President for Academic Affairs
Rochester Institute of Technology
Hans-Peter Bischof, Professor


Zachary Butler


Henry A Etlinger, Associate Professor


Matthew Fluet, Assistant Professor


Joe Geigel, Associate Professor


James E Heliotis

Edith Hemaspaandra, Professor

Christopher M Homan


REYNOLD BAILEY is an Associate Professor in the Computer Science Department in the B. Thomas Golisano College of Computing and Information Sciences. His research interests lie in the field of applied visual perception in computer graphics.

Researchers have been studying the human visual system for centuries. By comparison, the field of computer graphics is only about fifty years old. The amount of research literature on the human visual system, and the rate at which new findings are published, are extraordinary. Bailey’s research seeks to exploit the ever-expanding knowledge of the human visual system to develop innovative computer graphics applications, novel rendering techniques, and better display systems. His research activities are motivated by a multidisciplinary study in the areas of computer graphics, physiology, physics, psychology, and art.

Bailey was awarded a National Science Foundation Faculty Early Career Development (NSF CAREER) grant to further his work in the area of gaze manipulation. The ability to direct a viewer’s attention has important applications in computer graphics, data visualization, image analysis, and training. Bailey and his collaborators have developed techniques which guide viewer attention about a display in a manner that has minimal impact on the viewing experience. Their studies have found that guiding someone’s attention can improve their spatial understanding and their recollection of size, shape, and location of objects. A mammography training application that uses the scanpath and fixations of expert radiologists to guide novices has also been developed.

Bailey and his collaborators are currently developing and testing various approaches to extend the concept of gaze manipulation beyond digital imagery to include real-world environments. To learn more about Bailey’s work, go to https://sites.google.com/a/g.rit.edu/gaze-manipulation/.

REYNOLD BAILEY
ASSOCIATE PROFESSOR
DEPARTMENT OF COMPUTER SCIENCE
B. THOMAS GOLISANO COLLEGE OF COMPUTING AND INFORMATION SCIENCES
Trudy M Howles


Mohan J Kumar


**External Scholarly Fellowships:**
5/20/2013 - 7/26/2013
Office of Naval Research
Amount: $16500
≠


Xumin Liu, Assistant Professor


Sumita Mishra, Assistant Professor


Rajendra Raj, Professor

Published Conference Proceedings: Rajendra Raj, Professor


Carol J Romanowski


Richard Zanibbi, Associate Professor


Department of Computing Security

Daryl G Johnson, Associate Professor


Sumita Mishra, Assistant Professor


Rick Mislan, Lecturer


Yin Pan, Associate Professor


---

**Kaiqi Xiong, Assistant Professor**


---

**Bo Yuan, Associate Professor**


---

**Information Sciences and Technologies**

**Dan Bogaard, Associate Professor**


---

**Thomas J Borrelli**


---

**Jill C Bray**

Michael J Floeser


Deborah Gears, Associate Professor


Vicki L Hanson


Bruce Hartpence, Associate Professor


Lawrence W Hill

Edward Holden, Associate Professor

Deborah M LaBelle

Jim Leone, Professor

Sharon Mason, Associate Professor


Nirmala Shenoy

**Published Conference Proceedings:** Shenoy, Nirmala. "Peer to Peer Communications Among Ground Troop." Proceedings of the Communications Systems and Networks (COMSNETS), Bangalore India 4th to 6th Jan 2013. Ed. IEEE and ACM. Bangalore, Karnataka: n.p., Web. *


Ronald P Vullo


Michael Yacci, Professor


Qi Yu, Assistant Professor


Steve Zilora, Associate Professor


PhD Program

Anne Haake, Professor


Pengcheng Shi, Professor


Linwei Wang, Assistant Professor


School of Interactive Games and Media

Jessica Bayliss, Associate Professor


John A Biles


Adrienne Decker, Assistant Professor


**Christopher Egert, Associate Professor**


**W Michelle Harris, Associate Professor**

**Shows/Exhibits/Installations:** Harris, W. Michelle. Motion with Motion: Dance Performance and Video. 2013. Captivate Conference, Austin. Performance.

**Shows/Exhibits/Installations:** SoundExChange, W. Michelle Harris, BIODANCE, Anomaly. 23 Sep. 2013. Fringe Fest at the Strasenburgh Planetarium of the Rochester Museum & Science Center, Rochester. Performance.

**Shows/Exhibits/Installations:** Harris, W. Michelle. Studying Lydia from Birth. 3 May 2013. First Friday Gallery Night at the Ithaca Generator, Ithaca. Exhibit.


**Stephen Jacobs, Associate Professor**


**Elizabeth Lawley, Professor**


Software Engineering

J Scott Hawker, Associate Professor


Daniel Krutz, Lecturer


Stephanie Ludi, Associate Professor


Michael J Lutz, Professor


Andy Meneely, Assistant Professor


Tom Reichlmayr, Associate Professor


Emad Shihab, Assistant Professor


College of
Applied Science & Technology

Civil Engineering Technology, Environmental Management & Safety

Amanda Bao, Assistant Professor


Jeffrey W Rogers, Associate Professor


Jennifer Schneider, Professor


Electrical, Computer & Telecommunications Engineering Technology

Jeanne Christman, Assistant Professor


James Hurny


SungYoung Kim, Assistant Professor


Drew Maywar, Assistant Professor


AMANDA (YU) BAO IS AN ASSISTANT PROFESSOR IN CIVIL ENGINEERING TECHNOLOGY IN THE COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY. HER RESEARCH INTERESTS LIE IN SOIL-STRUCTURE INTERACTION, DYNAMIC RESPONSE OF HIGHWAY BRIDGES DURING EARTHQUAKES AND TSUNAMIS, AND INNOVATIVE USE OF NANO-FIBERS IN MODERN CONSTRUCTION MATERIALS.

Highway bridges need to remain operational after a disaster to allow for continued evacuation and an effective emergency response, therefore the bridge’s response to extreme loading conditions is critical. Bridge damage caused by tsunamis following earthquakes has received more and more attention due to the recent increase in high magnitude earthquakes. Tsunamis can cause significant scouring of the soil used as backfill in the bridge abutment, leaving the bridge highly susceptible to further damage. Bao’s research is focused on 3D finite element modeling of soil-foundation-structure interaction in bridges during earthquakes and tsunamis. The research results fill an existing knowledge gap for soil-structure interaction during earthquake and tsunami, advance understanding of soil-foundation-structure interaction in bridges and provide theoretical support to sustainable design of bridges in seismic zones. Bao and her collaborators are developing dynamic centrifuge modeling tests to validate the numerical simulations as well as to observe phenomena.

In 2013, Bao also collaborated with the researchers from the University of South Carolina to conduct numerical simulation of the transport mechanism in graphene oxide membranes. The research article has been published in the leading journal “Science” in October, 2013. The link to the article: http://www.sciencemag.org/content/342/6154/95.short.

To learn more about Bao’s research work, you can visit: http://baoteachingcet.com.

AMANDA (YU) BAO
ASSISTANT PROFESSOR
CIVIL ENGINEERING TECHNOLOGY
COLLEGE OF APPLIED SCIENCE & TECHNOLOGY


**Antonio F Mondragon, Assistant Professor**


hospitality, tourism, and nutrition management department

Muhammet Kesgin


Manufacturing & Mechanical Engineering Technology

Betsy Dell, Associate Professor


Robert D Garrick, Associate Professor


Spencer Kim


Ti-Lin Liu, Associate Professor


Mark W Olles, Assistant Professor


Alan D Raisanen, Assistant Professor


Manian Ramkumar, Professor


Larry U Villasmil, Assistant Professor


Packaging Science

Carlos Diaz-Acosta, Assistant Professor


Changfeng Ge, Associate Professor


Daniel Goodwin, Professor


Biomedical Sciences

Caroline J Easton, Professor


Carol Whitlock, CHST
JIM PERKINS IS GRADUATE DIRECTOR AND PROFESSOR IN THE MEDICAL ILLUSTRATION PROGRAM IN THE COLLEGE OF HEALTH SCIENCES AND TECHNOLOGY.

Prof. Perkins is best known as the illustrator of many of today’s most important medical textbooks. For over twenty years, he has been the sole illustrator of the “Robbins” series of pathology texts published by Elsevier. The flagship of the series, Robbins and Cotran Pathologic Basis of Disease, is used in most medical school pathology courses worldwide. Translated into thirteen languages, it is one of the most successful medical books of all time. Among the forty books that Perkins has illustrated are other notable titles, including Robbins Basic Pathology, Dorland’s Illustrated Medical Dictionary and Guyton’s Textbook of Medical Physiology.

Perkins is also part of a small team of illustrators and physicians who carry on the work of the late Dr. Frank H. Netter, widely regarded as the greatest medical illustrator of the 20th Century. Perkins has contributed new artwork to more than twenty titles bearing the Netter name. He also serves as artistic and anatomy consultant for Netter’s 3D Interactive Anatomy.

In addition to his published artwork, Perkins has written scholarly articles on subjects as diverse as human lung anatomy, molecular graphics, digital color management, and the use of interactive media for pre-surgical planning and intra-operative guidance.

Perkins is a Board Certified Medical Illustrator and a Fellow of the Association of Medical Illustrators (AMI). He has earned the AMI’s Outstanding Service Award, the AMI Literary Award (for best scholarly publication), and the 2005 AMI Illustrated Medical Book Award. In 2006, Perkins was selected as the Nancy Grahame Joy Visiting Lecturer in the Biomedical Communications Program, Faculty of Medicine, University of Toronto. In 2011, he was one of twenty-three illustrators worldwide (including just three from the U.S.) whose work was selected for the exhibition “Anatomy of an Image” by the Association Européenne des Illustrateurs Médicaux et Scientifiques. In 2012, three of his works received BMA Book Awards (including the Illustrated Book Award) from the British Medical Association.

JIM PERKINS
GRADUATE DIRECTOR & PROFESSOR
MEDICAL ILLUSTRATION
COLLEGE OF HEALTH SCIENCES & TECHNOLOGY


Laurence I Sugarman


Bolaji Thomas, Assistant Professor


Center for Applied Psychophysiology and Self-regulation

Laurence I Sugarman


Diagnostic Medical Sonography

Hamad Ghazle, Professor


Medical Illustration

James Perkins, Professor


Nutrition Management

Elizabeth A Kmiecinski


Physician Assistant

John B Oliphant, Assistant Professor


Professor Robin Cass, Chair of the School for American Crafts, creates a sculptural element in the glassblowing studio. The piece features an image of retinal arteries in a human eye transferred to silver foil through a photo-sensitive masking process, which she has encased in solid molten glass.
Michael A Rogers, Professor


David A Schnuckel, Visiting Assistant Professor


School of Art

Michael Amy, Professor

ELIZABETH KRONFIELD is an Associate Professor in the School of Art Fine Arts Studio Program. Her current research focuses on multi-media sculptural installations. She works primarily out of her private studio in Barre, but travels to artist residencies around the country to assist in the creation of her work.

Elizabeth’s recent projects include an Artist in Residence at Keen Foundry in Houston, Texas. Elizabeth spent the summer of 2013 at the foundry to create two cast iron sculpture components. Each piece required a 10,000 pound sand mold to be created and took 1500 pounds molten metal to cast. The two castings were then transported back to Elizabeth’s studio to be cleaned, chased, and patinaed. The finished sculptures became part of a larger installation, which included other materials, prints, and a video projection in a solo exhibition entitled Impulsion. This installation was recently on display in the Chapman Gallery at Kansas State University where Elizabeth also gave a Visiting Artist lecture highlighting the relationship between concept, material, and form.

Another recent solo exhibition was installed in the fall of 2013 at Redbird Gallery in Columbia, South Carolina. This exhibition entitled Chasing Tail included cast iron vessels and horsehair sculptures hung throughout the entire gallery.

Elizabeth’s recent installations interfere with the space, asking the viewer to navigate through the artwork and create relationships between the individual elements and materials while connecting that information to their own physical presence in the work. Her use of cast iron is integral to the concepts behind the work linking an industrial history along with referencing the material’s significance as the core of the earth and component of man. Elizabeth also uses natural materials such as carved stone and manipulated horsehair to investigate gender identities placed on materials.

Elizabeth future projects include traveling to China to participate in an International Residency program where she will create and exhibit new work along with a residency at Six Mile Sculptureworks in St Louis to collaborate on a large public earthwork.


Elizabeth Kronfield, Associate Professor


Thomas Lightfoot, Associate Professor


Alan D Singer

Sarah E Thompson, Assistant Professor

**School of Design**

**Deborah A Beardslee, Associate Professor**


**Peter Byrne, Associate Professor**


**Shows/Exhibits/Installations:** Byrne, Peter. Roundabout. By Peter Byrne, Carole Woodlock, and Allan Schindler. 20-30 May 2013. Melbourne International Animation Festival 2013, Melbourne, Australia. Exhibit.


**Nancy A Ciolek, Associate Professor**


**Shaun C Foster, Assistant Professor**


Lorrie Frear, Associate Professor


David L Halbstein


Chris Jackson, Associate Professor


Alex Lobos, Assistant Professor


Josh K Owen, Associate Professor


Shows/Exhibits/Installations: Owen, Josh. XX Coatrack for Casamania Added to Permanent Design Collection. 2013. Taiwan Design Museum, Taipei, TAIWAN. Exhibit.


Marla Schweppe, Professor


School of Media Sciences

Nick Paulus
School of Photographic Arts & Sciences

Roberley Bell, Professor


Angela Kelly, Associate Professor


William T Osterman, Professor


Oscar Palacio, Assistant Professor


Douglas Rea

**Full Length Book:** Rea, Douglas Ford. The World is Our Home. First ed. RIT and Marquette University, NY and WI: Non-published Limited Print Production of 1,000 Copies for Private Distribution, 2013. Print.

Christye P Sisson, Associate Professor


Ammina B Kothari, Assistant Professor


Kelly Martin, Assistant Professor


Jonathan Schroeder, Professor


JOHN MCCLUSKEY is an Associate Professor in the Department of Criminal Justice in the College of Liberal Arts. His research interests lie in the areas of policing, violent crime, and evaluation research.

Robbery is a terrifying but fascinating subject for laypersons and scientists alike. McCluskey’s recent research examined the differences in coercion used by street robbers and commercial robbers in one precinct of Detroit, Michigan. Data were collected from official police reports, coded, and analyzed with findings illustrating that variations in contemporary robbery resembles the picture developed by 40 years of prior research. The key findings indicated that gun use by robbers reduces physical coercion during the commission of the robbery and street robberies are more likely to involve physical coercion when compared to commercial robberies. Not content with understanding only how robbery outcomes vary across types of events, McCluskey and his collaborators began wondering how crime solutions, or clearances, might vary across urban geography. To that end, he and his colleagues began to explore neighborhood effects on robbery (and burglary) clearance, more simply the arrest of an offender responsible, in Rochester, NY and San Antonio, TX. Certain neighborhood characteristics such as percentage living in poverty, unemployment rate, and proportion of single parent families, which are indictors of concentrated disadvantage, are often conceived of as predictors of less vigorous police effort and less cooperation from citizens. Thus one would hypothesize that in highly disadvantaged neighborhoods the clearing of a robbery or burglary, based on an arrest, would be significantly less likely when compared to neighborhoods with lower levels of disadvantage. Contrary to this expectation the research findings indicate very little variation in clearance rates across neighborhoods with different levels of disadvantage in either city.

These unexpected results have sparked future research ideas. McCluskey and his colleagues intend to spend more time understanding what police detectives do and explore variations in their investigative approaches to solving robberies and burglaries. One focal point for this research, for example, will be an in depth examination of serial, or repeat, commercial robberies in San Antonio. The research team is currently collecting data to determine how serial commercial robbery patterns are identified, the ways detectives develop information across patterns, and successful methods of offender apprehension.


Tracy Worrell, Assistant Professor


Department of Criminal Justice

Irshad Altheimer, Assistant Professor


**External Scholarly Fellowships:**
9/1/2013 - 9/30/2014
Bureau of Justice Assistance
Amount: 300,000
*


John McCluskey, Associate Professor


Laverne McQuiller, Associate Professor


Judy L Porter, Associate Professor


Christopher Schreck, Professor


Jason Scott, Associate Professor


Tony Smith, Assistant Professor


Department of Economics

Amit Batabyal, Professor


**Published Review:** Batabyal, Amitrajeet A. Rev. of Water, Peace, and War, by B. Chellaney. Choice 2013: 349. Print. £

**Jeffrey Wagner, Associate Professor**


**Department of English**

**Cecilia Alm, Assistant Professor**


**A.J. Caschetta**


Babak Elahi, Professor


Robert D Glick, Assistant Professor


Department of Fine Arts

Elizabeth Goins, Assistant Professor


Dinah E Holtzman, Visiting Assistant Professor
Rebecca Scales, Assistant Professor


**External Scholarly Fellowships:**
- 6/23/2013 - 8/31/2013
- Société des Professeurs Française et Francophones d'Amérique
- Amount: $4000.00


Nikolina Bozinovic


Department of Modern Languages and Cultures

Evelyn Brister, Assistant Professor


Wade Robison, Professor

Lawrence Torcello, Assistant Professor


Nathan Dinneen


Joseph Fornieri


Department of Psychology

Joseph S Baschnagel, Assistant Professor


Sarah M Burns

Kirsten Condry

Zach Davies


Caroline M DeLong, Assistant Professor


Nicholas DiFonzo, Professor


John Edlund, Assistant Professor


Andrew Herbert, Professor


Jennifer A Lukomski, Associate Professor


Vincent Pandolfi, Associate Professor


Esa Rantanen, Associate Professor


Lindsay S Schenkel, Assistant Professor


Audrey M Smerbeck


Department of Sociology & Anthropology

Conerly Casey, Associate Professor


Department of Science Technology and Society/ Public Policy

M Ann Howard, Professor


Hang R Na

Christine Kray, Associate Professor


Wilson D Silva


External Scholarly Fellowships:
9/1/2013 - 8/30/2014
National Science Foundation - NSF
Amount: 10,544
* ≠

External Scholarly Fellowships:
5/1/2013 - 8/1/2015
National Endowments for the Humanities (NEH)
Amount: 70,937
* ≠


External Scholarly Fellowships:
6/1/2013 - 7/30/2013
University of Rochester - Researcher Mobility Travel Grant
Amount: 5,000
* ≠

Danielle T Smith


Robert Ulin, Professor


Benjamin N Lawrance, Associate Professor


Adam A. Goodenough


Brent Bartlett


Stefi Baum, Professor


Scott Brown


Nathan D. Cahill, Associate Professor


Brent Bartlett


James A. Ferwerda, Associate Professor


Scott Brown


Michael Gartley


Sudden cardiac death resulting from disruptions to the heart’s normal rhythm remains the leading cause of death in the industrialized world, causing approximately 20 percent of all deaths. Research has shown that the most dangerous cardiac arrhythmias arise from reentrant waves corresponding to spiral or scroll waves of electrical activity within the heart. Because the frequencies of these reentrant waves are higher than that of the heart’s own pacemaker, the heart’s natural rhythm is disturbed, triggering mechanical dysfunction that prevents adequate contraction and pumping of blood. Despite the obvious medical significance, much remains to be understood about the mechanisms responsible for the formation and evolution of arrhythmias in the human heart.

Cherry’s research, which is supported by the National Science Foundation, is focused on improving the understanding of cardiac electrical dynamics and arrhythmias in normal and diseased states by using mathematical modeling and simulation. Her work integrates perspectives and techniques from mathematics, computer science, physics, engineering, and biology and encompasses everything from construction of mathematical models for describing cellular processes to efficient implementation of large-scale computer codes and testing arrhythmia mechanisms using that computational platform. Along with developing several new models and algorithms, she and her collaborators have developed a novel low-energy method for defibrillation.

Cherry and her collaborators are currently conducting research in several new areas, including creating systematic approaches to model development, identifying dangerous precursor states to arrhythmias that can allow early intervention, and using techniques from weather forecasting to integrate experimental observations into model predictions.
Aaron Gerace


Richard K. Hailstone, Associate Professor


Maria Helguera, Associate Professor


Matthew J Hoffman, Assistant Professor


Joseph Hornak, Professor


Emmett Ientilucci, Research Assistant Professor


Joel Kastner, Professor

John Kerekes, Associate Professor


Michael Long


David Messinger, Research Associate Professor


Erin Ontiveros


Jeff Pelz, Professor


Michael Pierce, Assistant Professor

**Journal Paper:** Pierce, Michael S. "Dynamics of Au (100) Surface in Electrolytes: In-Situ Coherent X-ray Scattering." Physical Review B 86. (2013): 085410-. Print. *


Joe Pow

N Rao, Professor


Nina Raqueno


Carl Salvaggio, Professor


John Schott, Professor


**Journal Paper:** Smith, Thomas W. "Imidazole Polymers Derived from Ionic Liquid 4-Vinylimidazolium Monomers: Their Synthesis and Thermal and Dielectric Properties." Molecules ASAP. ma300862t (2013) Print. *


**Grover Swartzlander, Associate Professor**


**Jan van Aardt, Associate Professor**


Anthony Vodacek, Associate Professor


Richard Zanibbi, Associate Professor


School of Chemistry and Materials Science

Jeremy A Cody, Assistant Professor


Michael G Coleman, Assistant Professor


Paul A Craig, Professor


Nathan C Eddingsaas


Joseph Hornak, Professor


Lea Michel, Assistant Professor


Matt Miri, Associate Professor


John-David R Rocha


Kalathur S Santhanam, Professor


**Invited Presentations/Keynotes:** Santhanam, K.S.V. "Higher Education in Materials Science and Engineering in USA and RIT." United States Information Education Foundation. USIEF. Chennai, Tamil Nadu. 12 Jul. 2013. Lecture.

**Invited Presentations/Keynotes:** Santhanam, K.S.V. "Higher Education in Materials Science in USA and RIT." Prospective Students to USA. USIEF. Mumbai, Maharashtra. 19 Jul. 2013. Lecture.

**Hans F Schmitthenner, Lecturer**


**Gerald Takacs, Professor**


School of Life Sciences

**Gregory Babbitt, Assistant Professor**


Sandra J Connelly, Assistant Professor


Mark Fairchild, Professor


Andre Hudson, Assistant Professor


Dina Newman, Assistant Professor


Michael Osier, Associate Professor  


Michael Savka, Professor  


Gary R Skuse  

Susan Smith, Assistant Professor  


Anna Tyler, Assistant Professor


---

Bernard Brooks, Associate Professor


---

Elizabeth Cherry, Assistant Professor


**Raluca Felea, Associate Professor**


**Tony Harkin**


**Baasansuren Jadamba, Assistant Professor**


**Kara Maki, Assistant Professor**


**Laura M Munoz**


**Darren A Narayan, Professor**


David Ross, Professor


Paul Wenger, Assistant Professor


John Whelan, Associate Professor


**Tamas Wiandt, Associate Professor**  

**School of Physics and Astronomy**

**John D Andersen**  

**Mishkatul Bhattacharya, Assistant Professor**  


**Sukanya Chakrabarti**


**Scott Franklin, Professor**


**Dehui Hu**


**Seth Hubbard, Associate Professor**


**M Kotlarchyk, Professor**


---

**Aaron McGowan, Lecturer**


---

**David Merritt, Professor**


Christopher ODea, Professor


Michael Pierce, Assistant Professor


Michael Richmond, Professor


Andrew Robinson, Professor


George Thurston, Professor


Benjamin M Zwickl


Saunders College of Business

Accounting

Ratna Dey, Assistant Professor


Rong Yang, Associate Professor


Decision Sciences

A Erhan Mergen, Professor

William J Stevenson

Economics

Steven C Gold, Professor


Finance

Kirby Cundiff


Key for use with all citations
* Blind Peer Reviewed  Δ Invited Paper  ∆ Non-Blind Peer Reviewed  † RIT Student
* Double Blind Peer Reviewed  £ Refereed  ^ Trade Publication  ≠ External Funding
Chun-keung Hoi, Associate Professor


Archana Jain, Assistant Professor

Ashok J Robin, Professor


Hao Zhang, Assistant Professor


International Business

Rizwan Tahir
ZHI TANG is an Associate Professor in Management at Saunders College of Business in Rochester Institute of Technology. Dr. Tang’s major research interests lie in international entrepreneurship, corporate social responsibility (CSR), and complexity theory.

Dr. Tang holds a Ph.D. degree in Management and a Ph.D. minor in Management Information System from the University of Alabama, as well as a master degree in Finance from the Fudan University and a bachelor degree in Economics from the Shandong University.

Dr. Tang mainly conducts research in the field of entrepreneurial strategies in emerging and transitioning economies such as China. Throughout years of research, Dr. Tang has clearly revealed the evolving path of the competition strategies of Chinese entrepreneurial firms, which are from the cost effective strategy to branding, and now heading to the differentiation strategy. Chinese entrepreneurial firms are relying on innovations and even social engagements more and more to attain not just local, but global market share. Dr. Tang has also devoted a significant amount of effort to the study of the organizational CSR patterns in the West as well as in the East. Along with his colleagues, Dr. Tang has found that the key to achieve the “triple bottom line”, i.e., a firm has satisfying financial, social, and environmental performance, is to engage these activities in a strategic manner. A firm will benefit more when it adopts a CSR engagement strategy that is consistent, involves related dimensions of CSR, and begins with aspects of CSR that are more internal to the firm. Dr. Tang has publications in top management and entrepreneurship journals such as Journal of Management, Journal of Management Studies, Journal of Business Venturing, and Entrepreneurship Theory & Practice. Owing to his outstanding academic achievements, Dr. Tang was recognized as the Zutes Faculty Fellow. Dr. Tang has taught in both University of Alabama and Rochester Institute of Technology with the focus on International Business and Entrepreneurship.
Zhi Tang, Associate Professor


Darline Augustine


Clyde Hull, Associate Professor


Michael Palanski, Assistant Professor


Delmonize A Smith, Assistant Professor


Anthony J Baroody Jr, Lecturer


Christine D Custis

Sean W Hansen, Assistant Professor


Merouane Lakehal-Ayat


Manlu Liu, Assistant Professor


**Victor J Perotti, Associate Professor**


**Qiang Tu, Professor**


**Yang Yu**


**Marketing**

**Robert B Boehner**


Adriana M Boveda


Rajendran S Murthy, Assistant Professor


Sustainability

Master of Architecture

J Chiavaroli


PhD in Sustainability

Callie Babbitt, Assistant Professor


External Scholarly Fellowships:

7/1/2013 - 6/30/2018
National Science Foundation CAREER Amount: 400,355 ≠

Nabil Nasr, Professor


Key for use with all citations

* Blind Peer Reviewed  Δ Invited Paper
£ Double Blind Peer Reviewed  " Non-Blind Peer Reviewed
Δ Invited Paper  £ Refereed
^ Trade Publication  ≠ External Funding


Thomas Trabold, Associate Professor


CALLIE BABBITT is an Assistant Professor in the Golisano Institute for Sustainability. Her multidisciplinary research efforts aim at modeling the environmental risks of emerging and rapidly evolving technologies and then developing sustainability strategies for proactively mitigating these risks.

The key technologies Dr. Babbitt investigates are consumer electronics, lithium-ion batteries, and nanomaterials, all of which have unique sustainability challenges: rapid development, adoption, and evolution; high potential for environmental impact across their life cycle stages (including raw material extraction, manufacturing, use, and end-of-life management); and a lack of comprehensive data that can be used to accurately quantify potential environmental impact. To address these challenges, Dr. Babbitt’s research takes a dual approach: 1) collecting empirical data that characterizes the relevant properties and environmental attributes of these product systems; and 2) applying sustainability methods such as life cycle assessment to identify greener manufacturing routes, reduce product energy use, and improve reuse and recycling options.

This research approach has resulted in notable publications, grant awards, and student recognition. In 2013-14, Dr. Babbitt’s group published a creative new model in which the evolution of ecological systems was used for the first time as a model to explain long-term trends in the adoption of consumer electronics in U.S. households. Her group’s research on lithium-ion batteries also resulted in the first publication to quantify the potential amount of batteries entering the waste stream due to deployment of electric vehicles in the U.S. This research highlighted the importance of developing sustainable technologies for lithium-ion battery reuse, recycling, and disposal.

In 2013, Dr. Babbitt was awarded the prestigious Faculty Early Career Development (CAREER) Program Award from the National Science Foundation to study the sustainable management of lithium-ion batteries in the waste stream and to develop education and outreach on sustainable energy technologies. Since arriving at RIT, she has received over $800,000 in sponsored research as principal investigator, which has been used to support Ph.D., M.S., and undergraduate students and a postdoctoral research associate. Dr. Babbitt is active in the professional community, serving on the scientific committee for the International Symposium for Sustainable Systems and Technology and a board member for the Erasmus Mundus International Master’s Programme in Industrial Ecology. In 2010, Dr. Babbitt received the AT&T Technology and Environment Award for her research and teaching efforts in sustainability.

CALLIE BABBITT
ASSISTANT PROFESSOR
GOLISANO INSTITUTE FOR SUSTAINABILITY


**Research Centers**

**Nenad Nenadic, Research Associate Professor**


Kate Gleason College of Engineering

Center for Quality and Applied Statistics

Peter Bajorski, Associate Professor


Daniel R Lawrence


Joseph G Voelkel


Chemical and Biomedical Engineering

Thomas R Gaborski, Assistant Professor


Behnaz Ghoraani, Assistant Professor


Brian Landi, Assistant Professor


BLANCA LAPIZCO-ENCINAS is an Associate Professor in the Biomedical Engineering Department in the Kate Gleason College of Engineering. Her research interests lie in the fields of bio-separations, microfluidics and electrokinetics.

Microfluidics is a novel and rapidly growing field with applications ranging from biomedical and clinical analysis to environmental monitoring. Microfluidics has revolutionized the manner in which many analyses are carried out, opening the possibility for portable laboratories for on-field applications and online-process monitoring; i.e., taking the laboratory where it is needed, to the field or to the production line. Lapizco-Encinas’ research seeks to develop new microfluidic techniques for the separation and detection of biological particles such as proteins, DNA and cells. Her research is focused on the field of electrokinetics, where electric fields are used to manipulate particles in microfluidic channels. The use of electric field allows probing the electrical properties of biological particles, allowing for the characterization of cells; such as the separation of dead from living cells.

Lapizco-Encinas’ was awarded a National Science Foundation (NSF) grant to further her work on the manipulation of biological cells employing non-uniform electric fields. When particles are exposed to non-uniform electric fields, the particles polarize, but due to the non-uniformity of the field, the Coulombic forces in the particles are imbalanced, producing a net particle movement. This effect is called dielectrophoresis, a technique that allows for effective particle separation and enrichment with many potential applications in bio-analysis. The main advantages of miniaturized electrokinetic techniques, such as dielectrophoresis, is that analysis of biological particles can be performed in portable microdevices, at lower cost with processing times in the range of minutes; while traditional methods that may rely on cell culture, can take up to several days to produce a result.

Lapizco-Encinas and her collaborators are currently developing a novel electrokinetic schemes to achieve simultaneous separation and concentration of biological cells in microchannels by employing low frequency alternating current electric fields.

To learn more about Lapizco-Encinas’ work, you can visit: http://microbioseplab.org/

BLANCA LAPIZCO-ENCINAS
ASSOCIATE PROFESSOR
BIOMEDICAL ENGINEERING
KATE GLEASON COLLEGE OF ENGINEERING
Blanca H Lapizco-Encinas, Associate Professor


Cristian A Linte


**Reginald E Rogers**


Steven Weinstein, Professor


Computer Engineering

Amlan Ganguly, Assistant Professor


Dhireesha Kudithipudi, Associate Professor


Andres Kwasinski, Assistant Professor


Sonia Lopez Alarcon, Assistant Professor


Marcin Lukowiak, Associate Professor


Roy Melton, Senior Lecturer

Raymond W Ptucha


Andreas Savakis, Professor


Robert Bowman, Professor


Sohail Dianat, Professor


Mark A Hopkins


E Lyshevski, Professor


Sildomar T Monteiro


Mehran Mozaffari Kermani


Faculty Scholarship Report 2013


**Dorin Patru, Associate Professor**


**Sean L Rommel**


**Eli Saber, Professor**


**Ferat Sahin, Associate Professor**


External Scholarly Fellowships: 7/1/2013 - 6/6/2014
MKS ENI Inc.
Amount: 29,907 ≠

External Scholarly Fellowships: 7/1/2013 - 6/30/2014
NYSTAR
Amount: 60,611 ≠

MKS ENI Inc.
Amount: 48,674 ≠

External Scholarly Fellowships: 7/1/2012 - 6/30/2013
MKS ENI Inc.
Amount: 29,903 ≠

External Scholarly Fellowships: 7/1/2012 - 6/30/2013
NYSTAR - CIES
Amount: 64,631 ≠

External Scholarly Fellowships: 4/15/2012 - 5/31/2013
MKS ENI Inc.
Amount: 38,631 ≠
Gill Tsouri, Assistant Professor


External Scholarly Fellowships:
3/1/2013 - 6/1/2013
SJFC
Amount: $3,000

Jayanti Venkataraman, Professor


Industrial and Systems Engineering

Denis Cormier, Professor


Marcos Esterman, Associate Professor

Scott Grasman, Professor


Michael Kuhl, Professor


Matthew Marshall, Associate Professor


Ruben Proano, Assistant Professor


Brian Thorn, Associate Professor


**Margaret Bailey, Professor**


**Stephen Boedo, Associate Professor**


**Mechanical Engineering**

**Wael Abdel Samad**


Agamemnon Crassidis


Steven Day, Associate Professor


Surendra Gupta, Professor


Patricia Iglesias Victoria


Satish Kandlikar, Professor


Jason Kolodziej, Assistant Professor


Kathleen Lamkin-Kennard, Associate Professor


Risa Robinson, Professor


**Wayne Walter, Professor**


**Microsystems Engineering**

**David Borkholder, Associate Professor**


**Robert J Stevens, Associate Professor**


**Benjamin Varela, Associate Professor**


**Zhaolin Lu, Assistant Professor**


**Stefan F Preble, Assistant Professor**


**Invited Presentations/Keynotes:** Preble, Stefan. "Silicon Photonic Quantum Optical Devices." SPIE 2013 Optics+Optoelectronics. SPIE. Prague, Czech Republic. 5 Apr. 2013. Conference Presentation. *

**Bruce W Smith**


Jiandi Wan


Institute for the Deaf

Marianne Gustafson, Professor


American Sign Language and Interpreting Education (ASLIE)

Leisa Boling


Peter Hauser, Associate Professor


ANNEMARIE D. ROSS, ASSISTANT PROFESSOR IN THE DEPARTMENT OF SCIENCE AND MATHEMATICS, AT THE NATIONAL TECHNICAL INSTITUTE FOR THE DEAF, FOCUSES ON RESEARCH IN THE FIELDS OF ENVIRONMENTAL CHEMISTRY AND DEAF PEDAGOGY.

Along with collaborators, the research team focuses on the study of Dissolved Organic Carbon (DOC), a “natural” pollutant formed from the degradation of biological matter. DOC makes its way through the local watershed, and due largely to its phenolic content, it can produce potentially carcinogenic disinfection byproducts resulting from treatment for drinking water. The multidimensional fluorescence spectra of the DOC, along with the use of advanced chemometrics, allows the team to monitor the local watershed for DOC and phenol content and should lead to future projects; including the development of biogeochemical profiles, monitoring the impact of Climate Change on DOC/phenol quantity and the production of in-situ instrumentation to test the phenolic content in water. This work has led to a recent publication in the Royal Chemical Society’s Journal of Environmental Monitoring. Professor Ross always includes Deaf and hard-of-hearing undergraduate students on the research team (including a large group of students at the Associate’s degree level).

In addition to the Environmental Chemistry research, Professor Ross also studies the effect of curriculum modifications/innovations on Deaf and hard-of-hearing students in the science classroom. The curricular modifications span from the use of the American Chemical Society’s Climate Change Tool Kit to “Writing in the Sciences and Science in Writing” (writing across the curriculum- a project that she works on with departmental colleagues). These studies have led to publication in the national and local proceedings of the American Chemical Society conferences, as well as in the Journal of Science Education for Students with Disabilities. Along with co-members of the American Chemical Society’s Committee on Chemists with Disabilities, she has also worked to disseminate ‘best practices’ for teaching chemistry to students with disabilities (K-postsecondary). A general article on issues of Deaf and hard-of-hearing education in the STEM fields has also been submitted for publication.


Kim Kurz, Assistant Professor

External Scholarly Fellowships:
4/20/2013 - 6/8/2013
U.S. Department of State and the J. William Fulbright Foreign Scholarship Board
Amount: $15,000
*

Cynthia Sanders, Associate Professor


Deirdre Schlehofer, Assistant Professor


Invited Presentations/Keynotes: Schlehofer, Deirdre. "How to Teach Hearing Faculty Who Work with Deaf and Hard-of-Hearing Students: Faculty Staff Sign Language Program (FSSLP)." Faculty Meeting. The National University Corporation of Tsukuba University of Technology (NTUT). Tokyo, JAPAN. 27 Feb. 2013. Lecture.


Art and Imaging Studies

Frank Argento, Associate Professor


Paula Grcevic, Professor

Shows/Exhibits/Installations: Grcevic, Paula.

Shows/Exhibits/Installations: Grcevic, Paula.
Faces 101: One Week Sketches. 6 Jan. 2013. Carla Soneheim Site, Seattle. Exhibit. *

Shows/Exhibits/Installations: Grcevic, Paula.

Shows/Exhibits/Installations: Grcevic, Paula.

Shows/Exhibits/Installations: Grcevic, Paula.

Shows/Exhibits/Installations: Grcevic, Paula.

Shows/Exhibits/Installations: Grcevic, Paula.

Kurt Stoskopf, Assistant Professor

Uninvited Presentations: Stoskopf, Kurt.


Kim Kurz, Assistant Professor

Invited Presentations/Keynotes: Kurz, Kim.

ASL and Interpreter Education

Campbell A McDemid


Business Studies

Tracy H Magin


Kathleen Szczepanek, Assistant Professor


Charlotte L Thoms


Communication Studies and Services

**Linda Gottermeier, Associate Professor**

**Grants:** Ting, Simon, et al (2012-2013). Using Social Media and Online Video Applications, with Added Peer Tutoring Support for Classroom and Lab-Based Instruction in Two-Year and Certificate CTE Program at NTID. Grant received/funded by Perkins VATAE, Perkins. *


Cultural & Creative Studies

**Gerald S Argetsinger, Associate Professor**


**Joseph Bochner, Professor**

**Manuscripts Submitted for Publication:**

**Erin Auble, Lecturer**


**Luane Haggerty, Senior Lecturer**


Aaron W Kelstone

Engineering Studies

Dino J Laury (Lauria), Assistant Professor

Information and Computing Studies

Karen Beiter, Assistant Professor
Grants: Beiter, Karen J. (2013-2014). Automatic Motion Tracking Cameras: Enhancing Video Recording Opportunities for Deaf/Hard of Hearing Students. Grant received/funded by Grant Writing Boot Camp, NTID/RIT.

Raja Kushalnagar, Assistant Professor


Published Game, Application or Software: Kushalnagar, Raja S. Accessible Viewing Device. Phone or Smart Device App. NTID. 2013.

David E Lawrence


Elissa M Olsen

Joseph Stanislow, Assistant Professor
Jessica Cuculick, Assistant Professor


Kathleen Eilers-crandall, Associate Professor


Pamela Kincheloe, Associate Professor


**Grants:** Kincheloe, Pamela, Deborah Blizzard, and Susan Foster (2012-2014). Cochlear Implant Technologies, Popular Culture, and the Search for Social Identity. Grant received/funded by COLA/NTID Seed Grant Partnership, COLA/NTID.

Eugene Lylak, Professor


John-Allen Payne, Associate Professor


Linda Rubel, Professor


Michael E Skyer


Marilyn Walker, Assistant Professor


Gerald Berent, Professor


Vincent J Samar, Associate Professor


Grants: Samar, Vincent J., et al (2012-2013). Diagnostic Brain Wave Technology for Identifying Young Adults with ADHD. Grant received/funded by Office of the Vice President for Research, RIT.


Susan Lane-Outlaw, Assistant Professor


Sara Schley, Associate Professor


Manuscripts Submitted for Publication:
Carol De Filippo


**Internal Reports/Manuscripts/Articles:**

**Internal Reports/Manuscripts/Articles:**

**Internal Reports/Manuscripts/Articles:**

**Internal Reports/Manuscripts/Articles:**

Ronald Kelly, Professor


Ila Parasnis, Professor


Vincent J Samar, Associate Professor

Michael Stinson, Professor


**Office of the President**

**Lisa Elliot**


Marc Marschark, Professor


**Invited Presentations/Keynotes:** Marschark, Marc. "What We Know and What We Think We Know about Language and Learning." Annual Meeting Canadian Association of Educators of the Deaf and Hard of Hearing. CAEDHH. Winnipeg, Canada. 15 Feb. 2013. Keynote Speech.


**Invited Presentations/Keynotes:** Marschark, Marc. "Research in Deaf Education: Are We Making Progress?" Royal Institute for Deaf and Blind Children Research Symposium. RIDBC. Brisbane, Australia. 3 Jul. 2013. Keynote Speech.


**Invited Presentations/Keynotes:** Marschark, Marc. "Teaching Deaf Children: What We Know and What We Don't Know." Renwick Centre Master Classes. RIDBC. Sydney, Australia. 9 Jul. 2013. Lecture.

Henry J Adler, Assistant Professor


Austin Gehret, Assistant Professor


Bonnie Jacob, Assistant Professor

**Grants:** Jacob, Bonnie (2013-2014). Center for Undergraduate Research in Mathematics Mini-grant. Grant received/funded by Center for Undergraduate Research in Mathematics Mini-grant, Center for Undergraduate Research in Mathematics and National Science Foundation.

Matthew Lynn, Assistant Professor


Todd Pagano, Associate Professor


Grants: Pagano, Todd and Susan B. Smith (2012-2013). Instrumentation for Broadening High-Tech Career Opportunities for Deaf and Hard-of-Hearing Laboratory Science Technology Students. Grant received/funded by VATEA, NYSED. ≠


Vicki Robinson, Associate Professor


Annemarie Ross, Assistant Professor

Grants: Ross, Annemarie (2013-2013). The Dorothy and Moses Passer Education Fund. Grant received/funded by The Dorothy and Moses Passer Education Fund, American Chemical Society.

Grants: Lynn, Matthew, Sandra Connelly, and Annemarie Ross (2012-2014). Investigation of Strategies to Improve the Success of Deaf and Hard-of-Hearing Students Transitioning into Baccalaureate Studies in STEM Disciplines. Grant received/funded by Research Center for Teaching and Learning, NTID.


Grants: Ross, Annemarie D. (2013). ACS Education Associate Grant. Grant received/funded by Education Program, American Chemical Society. £


American College of Management and Technology/ Croatia

Kevin Walker


Center for Multidisciplinary Studies

Cathryn R Leyland


Thomas Moran, Professor


RIT Dubai

Rizwan Tahir


Key for use with all citations

* Blind Peer Reviewed  
≠ External Funding  
∆ Invited Paper  
£ Refereed  
^ Trade Publication  
† RIT Student  
˜ Non-Blind Peer Reviewed
RIZWAN TAHIR is currently an Associate Professor of Business at RIT Dubai. Prior to that, he has held the faculty positions at the University of Auckland and AUT University in New Zealand and University of Vaasa in Finland. Dr. Tahir has obtained his Ph.D degree in International Business at the University of Vaasa, Finland. His research has been published in the Journal of International Consumer Marketing, European Business Review, Asian Business & Management, Journal of Global Business Advancement and Global Business Review.

Rizwan Tahir’s academic research interests lies in the areas of foreign direct investment, internationalization and market entry strategies, international human resource management and businesses in Arab cultures. His earlier work focused on foreign investment related issues (e.g. location choices, timing of entry, ownership arrangements, joint venture arrangements including partner selection and performance in the cross-cultural context). Dr Tahir’s PhD dissertation considered the FDI behavior of Finnish manufacturing firms in Asian countries. This research has been extended into comparative studies of FDI behavior of Finnish companies with Australian/New Zealand companies. It was found that antipodean companies tended to invest in countries with very high political stability, low cultural distance between host and home countries, low wage rates, and highly skilled labor.

Dr. Tahir more recent work has considered international issues in human resource management, particularly expatriation and repatriation of managers. When multinational companies send key staff overseas to manage what is typically large and strategic projects, how effective are they? When these managers return to their home countries, how easily are they re-assimilated into their company? His recent study of female repatriate managers in Australian and New Zealand (ANZ) companies, has recently been published in the Global Business Review highlighted those female repatriate managers in the ANZ companies returning home experienced great frustration in reintegrating with their parent companies. Their overseas experience and the knowledge they gained were neither valued nor used. Often those managers left their companies within a year or two, meaning that their international expertise and contacts were lost to the company. Without active policies to reintegrate expatriate managers, companies risk losing what are often their best and most visionary staff, as well as repeating over and over again fundamental mistakes in managing overseas subsidiaries. Dr. Tahir’s current research looks at the experience of managers from the UAE, and those Australian and New Zealand expats working in the UAE in foreign companies. The results will help companies to apply best practice in this aspect of international HR management and cross-cultural management.