Saturday, November 17, 2018

9-9:45 a.m.  Welcome Address
10-10:45 a.m.  Session 1
11-11:45 a.m.  Session 2
Noon-2 p.m.  Informational Fair
Noon-12:45 p.m.  Session 3
1-1:45 p.m.  Session 4
2-2:45 p.m.  Session 5
Session 2 / 11-11:45 a.m.

PARENT/ FAMILY TRACK
UT Dallas Career Center
What's Your Destination?
Carlos Contreras
SSA Auditorium

Ask the Experts: Student Panel
UT Dallas students
ECSS 2.102

Aprende Más de UT Dallas: Taller para Alumnos y Padres
Sesión de información en español para padres y alumnos interesados en UT Dallas
Adda Mendoza, Gabriel Barron and Angelica Sanjuan
JSOM 1.107

School of Arts, Technology, and Emerging Communication
Motion Capture Lab Demonstration
Adam Buxkamper
ATC 1.801A

Naveen Jindal School of Management
Tips and Tricks for Being Successful in College
Dr. Marilyn Kaplan
ECSS 2.410

STUDENT TRACK: FACULTY

LECTURES

See page 3 for more details on the lectures and faculty presenters

School of Arts and Humanities
Study Abroad in Oaxaca
Dr. Monica Rankin
ECSS 2.306

School of Arts, Technology, and Emerging Communication
Sound Design for Digital Environments
Adam Chandler
ECSS 2.412

School of Behavioral and Brain Sciences
Treating Chronic Pain: Are Different Solutions Needed for Chronic Pain in Women vs. Men?
Dr. Theodore Price
ECSS 2.415

School of Economic, Political and Policy Sciences
Dr. L. Douglas Kiel
JSOM 1.117

Engineering and Computer Science
Science and Technology of Multifunctional/Biocompatible Ultrananocrystalline Diamond (UNCDTM) Coatings and Applications to a New Generation of Implantable Medical Devices
Dr. Orlando Auciello
ECSW 1.315

School of Interdisciplinary Studies
Preparation for Healthcare: The Bachelor of Science Degree in Healthcare Studies
Dr. Kathleen Byrnes
JSOM 1.102

Naveen Jindal School of Management
STEM in Business
Dr. Dawn Owens
JSOM 1.118

School of Natural Sciences and Mathematics
Molecular Cameras for Exploring the Negative (X-) Side of Biology
Dr. Sheel Dodani
SLC 1.102

For Your Information

Lunch can be purchased in Dining Hall West (all you care to eat) or the Student Union Food Court (à la carte) from noon to 3 p.m. All registered students will receive a free meal ticket in their registration packets.

Be sure to stop by the Student Union Food Court between 12:30 and 1:30 p.m. for a special performance by the UT Dallas Jazz Band.

Want to talk one-on-one with UT Dallas faculty, staff and students? Visit our Informational Fair in the Visitor Center Atrium from noon to 2 p.m.

Visit our Application Assistance Lab to apply for admission and turn in any official documents in the Naveen Jindal School of Management 1st floor Computer Lab (JSOM 1.211) from noon to 1 p.m.

Campus tours will leave every half hour from 10 a.m. to 2 p.m. from the Visitor Center lobby in the Visitor Center and University Bookstore building. Please note: the last tour will leave at 2 p.m.

Want to explore the more than 3 million volumes available at the Eugene McDermott Library? A UT Dallas librarian will be on hand to offer library tours beginning at 11 a.m.

The University Bookstore will be open from 10 a.m. to 3 p.m. Don’t forget to use your special Scholars’ Day coupon to save 20 percent off the latest UT Dallas spirit items.

Join us on social media, find our geofilter on Snapchat and share your pictures from Scholars’ Day:
- facebook.com/UTDallasVisitorCenter
- twitter.com/futurecomets
- instagram.com/futurecomets
- #FutureComet
- #UTDScholarsDay

We want to hear from you: Please bring your completed event evaluation to the Visitor Center lobby between noon and 3 p.m. for a special student gift.
School of Arts and Humanities

Session 2: Faculty Lectures

Lecture Title: “Study Abroad in Oaxaca”

Synopsis: Culture and Society in Mexico is a 6-week study abroad program that offers an immersion experience for students in the charming city of Oaxaca. Through language instruction, scholarly presentations, and field activities, students experience first hand the vibrant intersection of Mexico’s history through the lens of public health, culture, and community engagement.

Speaker Bio: Dr. Monica Rankin is an associate professor of history at The University of Texas at Dallas, where she is also the director of the Center for U.S.-Latin America Initiatives and the director of the Latin American Studies Program. She specializes in the history of Mexico, Latin America, and U.S.-Latin American relations. She completed her PhD in Latin American history from the University of Arizona in 2004. She is the author of ¡México, la patria! Propaganda and Production during World War II (University of Nebraska Press, 2009); The History of Costa Rica (Greenwood Press, 2012); and Encyclopedia of Latin American History and Culture: The Search for National Identity, 1820s-1900 (Facts on File, 2010). In addition, her general textbook on Latin American history, Exploitation, Inequality, and Resistance: Three Centuries of Latin American History (Oxford University Press) and her primary document reader Problems in Modern Mexican History (Rowman & Littlefield) were published in 2017. She has written several chapters and articles on various aspects of Mexican foreign policy, gender, and popular culture during World War II. Her current project, a history of the Office of the Coordinator of Inter-American Affairs during the 1940s, is under contract with the University of Nebraska Press. She is the recipient of research grants through the Fulbright Program, the Roosevelt Institute, the Truman Institute, and the UT Dallas Center for U.S.-Latin American Initiatives. Other research projects continue to examine popular culture, propaganda, and nationalism in 20th century Mexico and Latin America. In the area of pedagogy, she was the winner of the 2015 Regents’ Outstanding Teaching Award for The University of Texas System. She is known for her use of Twitter, animation, and other forms of emerging media in the classroom. Currently, Rankin is leading several study abroad programs in Mexico and South America for UT Dallas students.

School of Arts, Technology, and Emerging Communication

Lecture Title: “Sound Design for Digital Environments”

Synopsis: We will explore the challenges of creating audio for digital environments, while analyzing the key differences between audio for pre-rendered media and audio for interactive media. There will be a focus on sound design for game-based applications, with many examples of the ideas being discussed.

Speaker Bio: Adam Chandler’s professional experience and teaching interests range from 3D modeling, audio and level design to motion graphics and scripting. He also spent several years doing sound design for various Dallas companies, including AAA games, indie games, and live event visualization. By sharing his passion for 3D, audio, and interaction, he hopes to bring an element of excitement to the classroom.

School of Behavioral and Brain Sciences

Lecture Title: “Treating Chronic Pain: Are Different Solutions Needed for Chronic Pain in Women vs. Men?”

Synopsis: Neuronal plasticity is a fundamental principle of modern neurobiology. Plasticity is widely studied as a mechanism of learning and memory and, increasingly, as a driver of disease. It is now widely accepted, for instance, that neuronal plasticity is an underlying cause of most forms of chronic pain, indicating that chronic pain is not a symptom of another chronic disease but a disease of the nervous system. Very recent evidence suggests that the plasticity drivers of chronic pain are very different in male and female animals and these drivers may also be sexually dimorphic in humans. The talk will focus on the evidence for these male- and female-specific forms of plasticity and their implications for treating chronic pain.

Speaker Bio: Dr. Theodore (Ted) Price is the Eugene McDermott Professor and Director of the Systems Neuroscience Program in the School of Behavioral and Brain Sciences at The University of Texas at Dallas. He is also the director of the Center for Advanced Pain Studies at UT Dallas. He did his PhD work with Chris Flores and Ken Hargreaves at UT Health San Antonio and a postdoctoral fellowship at McGill University with Fernando Cervero. He started his independent laboratory in 2007 at The University of Arizona School of Medicine and moved to UT Dallas in 2014. His lab is interested in molecular mechanisms driving the transition to chronic pain with a focus on drug development for chronic pain disease modification and on peripheral and central mechanisms of neuronal plasticity in response to injury. He has won numerous awards including the John C. Liebeskind Early Career Scholar Award from the American Pain Society and the Patrick D. Wall Young Investigator Award from the International Association for the Study of Pain. Price serves on editorial boards for leading pain and neuroscience journals such as Pain and Journal of Neuroscience, and is a standing member of the Somatosensory and Pain Study Section for NIH.

School of Interdisciplinary Studies

Lecture Title: “Preparation for Healthcare: The Bachelor of Science Degree in Healthcare Studies”

Synopsis: This lecture provides an overview of the Bachelor of Science in Healthcare Studies, which prepares students who want to pursue careers in healthcare fields, including medicine, pharmacy, optometry, dentistry, physical therapy and physician assisting. The degree prepares students for future training as well as employment in the U.S. healthcare industry.

Speaker Bio: Dr. L. Douglas Kiel is professor of public and nonprofit management and has served at UT Dallas since 1986. His areas of expertise range from leadership, to managing complex systems, to social neuroscience. His research is cited in more than 170 different academic journals representing fields as diverse as government, business, music, urban planning and nuclear science.

Synopsis: We are often taught to believe that the natural sciences such as chemistry and physics are the “hard sciences.” We must begin to see the social and policy sciences as the hard sciences. These are the disciplines that will help humanity face the difficult problems ranging from climate change, to the automation of work, to enhancing the well-being of all of the world’s inhabitants. It is these social and policy scientists who will become essential to the success of industry, government and the world. In the 21st century, policy and social scientists will be in great demand as they are the “synthesizers” who can apply an interdisciplinary lens to the challenges of an increasingly complex world.

Speaker Bio: Dr. Kathleen Byrnes is program head of healthcare studies. She earned her PhD in healthcare studies from Texas Woman’s University. Byrnes also is a licensed professional counselor and has spent 20 years working in healthcare administration as well as working with patients and families in a variety of healthcare settings.
Session 2: Faculty Lectures (cont.)

Erik Jonsson School of Engineering and Computer Science

Lecture Title: “Science and Technology of Multifunctional/Biocompatible Ultrananocrystalline Diamond (UNCDTM) Coatings and Applications to a New Generation of Implantable Medical Devices”

Synopsis: New paradigms in the research and development of nanocarbon thin films are providing the bases for new physics, new materials science and chemistry, and their impact in a new generation of multifunctional biomedical devices. This talk will focus on discussing the science and technology of the new paradigm material named ultrananocrystalline diamond (UNCDTM) in thin film form and integration into a new generation of medical devices and implants as described below. UNCD films co-developed and patented by Dr. Orlando Auciello and colleagues are synthesized by novel microwave plasma chemical vapor deposition and hot filament chemical vapor deposition techniques using an Ar-rich/CH4 chemistry that produces films with 2-5 nm grains. The fundamental science underlying the synthesis and properties of the UNCD films and applications to devices will be discussed. The UNCD films exhibit the lowest friction coefficient (0.02-0.04) compared with metals (≥ 0.5) currently used in many prostheses (e.g., hips, knees), electrically conductive UNCD coatings with nitrogen in grain boundaries can enable a new generation of neural electrodes, UNCD coatings are extremely biocompatible. Original Biomedical Implants (OBI-USA) and OBI-México, founded by Auciello and colleagues, are developing new generations of implantable medical devices based on the biocompatible UNCD coatings, namely: a) UNCD-coated silicon based microchip implantable inside the eye as a key component of the artificial retina to return partial vision to blind people by genetically-induced degeneration of photoreceptors; b) new generation of Li-ion batteries with ≥ 10x longer life and safer, using UNCD-based electrodes, membranes and inner wall battery case, may enable next generation of superior long-life defibrillators/pacemakers; c) new generation of implantable prostheses (e.g., dental implants, hips, knees and more) coated with UNCD eliminates failure of current metal-based implants due to synergistic mechanical wear / chemical corrosion by body fluids; d) UNCD-coated magnets temporarily positioned outside the eye produce magnetic fields that attract super-paramagnetic nanoparticles to push detached human retinas into place to cure retina detachment (first clinical trials performed in Argentina in 2017 returned normal vision to two patients); e) extremely hydrophobic UNCD coating encapsulating polymer-based glaucoma valves have been demonstrated, which inhibit proteins adhesion, providing superior performance over current polymer-based valves in the market today, which get clogged undesirably early after implantation due to their hydrophilic surface.

Speaker Bio: Dr. Orlando Auciello holds the Distinguished Chair in Engineering and is a professor of materials science and engineering. He earned his master’s and doctoral degrees in physics from the Balseiro Institute at the National University of Cuyo in Argentina. Auciello has expertise in fusion technology in the global marketplace. She has served on the national Advisory Board for Student Chapters in the Association of Information Systems. Prior to teaching, she held various technology roles which include programmer, database administrator, systems analyst, project manager, and executive management. Auciello is co-founder, investor and advisor of Advanced Diamond Technologies Inc., which commercializes UNCD-based industrial products, and Original Biomedical Implants, which is housed in the University’s Venture Development Center.

Naveen Jindal School of Management

Lecture Title: “STEM in Business”

Synopsis: Did you know that careers in technology are among the fastest growing jobs? Careers in technology are on the rise, however, knowledge of technology is critical in all fields. This information session is to help individuals understand the field of information technology and systems and how businesses use technology to meet their goals.

Speaker Bio: Dr. Dawn Owens is the director of the Bachelor of Science in Information Technology and Systems Program. She teaches Information Technology for Business, Systems Analysis and Design, and Database Fundamentals. She also enjoys her role as faculty advisor for the student chapter of the Association of Information Systems and Women in IT. In addition, she serves on the national Advisory Board for Student Chapters in the Association of Information Systems. Prior to teaching, she held various technology roles which include programmer, database administrator, systems analyst, project manager, and executive management. Owens earned all of her degrees from the University of Nebraska Omaha. She is passionate about educating and developing students for various positions in information systems and technology in the global marketplace. She has received awards for online course design and recognition in teaching excellence.

School of Natural Sciences and Mathematics

Lecture Title: “Molecular Cameras for Exploring the Negative (X-) Side of Biology”

Synopsis: Negatively charged ions (anions) such as chloride and sulfate contribute to a wide range of functions in our bodies, including the way we feel pain and carry out detoxification processes. If we could capture a snapshot of these ions in action, fundamental information about how these ions contribute to human health and disease would be gained, which, in turn, could lead to new treatments for anion-dependent diseases (e.g. cystic fibrosis, autism, chronic pain). To capture this snapshot, we are engineering “molecular cameras” that bind to a target anion in a living cell and emit a burst of light similar to a camera flash.

Speaker Bio: Dr. Sheel Dodani was born and raised in Plano, Texas. She earned her bachelor’s degree in chemistry from The University of Texas at Dallas in 2007 where she carried out research in the laboratory of Dr. John Sibert. Dodani pursued her graduate studies at the University of California, Berkeley under the supervision of Dr. Christopher Chang. Her graduate work focused on the synthesis and application of new small molecule fluorescent probes and related analytical imaging technologies to uncover new roles for transition metals in cellular signaling. After completing her PhD in 2013, she joined the laboratory of Dr. Frances Arnold at the California Institute of Technology as an NIH Ruth L. Kirschstein NRSA Postdoctoral Fellow. There she employed a multipronged approach, encompassing protein crystallography, enzymology, and directed evolution to understand the structure-function relationship of nitrating cytochrome P450s, resulting in the discovery of new enzymes and natural products. In August 2016, Dodani came back to The University of Texas at Dallas and joined the faculty in the Department of Chemistry and Biochemistry. In her independent research program, Dodani and her team are developing a toolkit to identify the cellular stores, protein targets, and signaling roles of biologically relevant anions with the aim to not only provide a fundamental understanding for the roles of anions in biological systems, but also in the manifestation, diagnosis, and treatment of diseased states.
Session 3 / Noon-12:45 p.m.

JOINT INTEREST SESSIONS

**School of Arts, Technology, and Emerging Communication**

**Motion Capture Lab Demonstration**
Adam Buxkamper  
**ATC 1.801A**

**Erik Jonsson School of Engineering and Computer Science**

**Internships: Your Path to Career Success**
Jerry Alexander  
**ECSW 1.315**

**Naveen Jindal School of Management**

**Innovation For Fun and Profit**
Paul Nichols  
**JSOM 1.102**

**Division of Student Affairs**

**Getting Involved: Student Life at UT Dallas**
Hana Moosa & Steven Gomez  
**JSOM 1.107**

**Health Professions Advising Center**

**Pre-Med and Pre-Health Advising**
Doyen Rainey  
**SLC 1.102**

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**Informational Fair**

Browse tables hosted by University departments and student organizations  
*Visitor Center Atrium (VCB)*

**Application Assistance Lab**
Submit your application and official documents, and get your application fee waived  
*Jindal School of Management 1st floor computer lab (JSOM 1.211)*

**Walking Campus Tour**
Learn more about the University’s campus, traditions and amenities during this 30-minute walking tour (does not include housing)  
*Visitor Center lobby (VCB 1.101)*

**Residence Hall Tours**
Learn more about the University’s housing  
*Residence Hall West main entrance*

**Lunch**
*Student Union Food Court and Dining Hall West*

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**Informational Fair**

**Noon-2 p.m., Visitor Center Atrium**

1. School of Arts & Humanities  
2. School of Arts, Technology & Emerging Communication  
3. School of Behavioral & Brain Sciences  
4. School of Economic, Political & Policy Sciences  
5. School of Economic, Political & Policy Sciences - Global Studies  
6. School of Engineering & Computer Science (Erik Jonsson)  
7. School of Interdisciplinary Studies/Healthcare Studies  
8. School of Management (Naveen Jindal)  
9. BS Supply Chain Management Program (Jindal School of Management)  
10. Innovation & Entrepreneurship Academic Programs (Jindal School of Management)  
11. School of Natural Sciences & Mathematics  
12. School of Natural Sciences & Mathematics - Physics Department  
13. Health Professions Advising Center  
14. Office of Undergraduate Education/Exploratory Advising (undeclared majors)  
15. Hobson Wildenthal Honors College  
16. AIESEC Dallas (Intl Assn of Students in Economic & Commercial Sciences)  
17. Chemistry Student Association  
18. InterVarsity Christian Fellowship  
19. Student Physics Society  
20. Tri Sci Professions  
21. UTD Biochemistry Association  
22. University Emergency Medical Response Team (UEMR)  
23. Academic Bridge Program  
24. Diversity Scholars Program  
25. Education Abroad  
26. Galerstein Gender Center  
27. Financial Aid  
28. Freshman Mentor Program  
29. Living Learning Communities  
30. Multicultural Center  
31. New Student Programs  
32. Office of Student Volunteerism  
33. Residential Life  
34. Student Organization Center  
35. Student Transitions Program  
36. Student Success Center  
37. Terry Scholars Program  
38. Transfer Student Services
Session 4 / 1-1:45 p.m.

JOINT INTEREST SESSIONS

**Transfer Student Services/Terry Foundation Transfer Scholarships/Office of Admission and Enrollment**
Transfer 101: Admission, Student Life and Scholarships
Cassie Cure, Kellie Hanford and Ryan Slack
JSOM 1.107

**Hobson Wildenthal Honors College Programs**
Learn about the various academic, cultural and mentoring programs available to qualified students through the Honors College, including the Collegium V Honors Program and National Merit Scholars Program.
Dr. Edward J. Harpham and Valerie Brunell
JSOM 1.212

**Informational Fair**
Browse tables hosted by University departments and student organizations
Visitor Center Atrium (VCB)

**Walking Campus Tour**
Learn more about the University's campus, traditions and amenities during this 30-minute walking tour (does not include housing)
Visitor Center lobby (VCB 1.101)

**Residence Hall Tours**
Learn more about the University's housing
Residence Hall West main entrance

**Lunch**
Student Union Food Court and Dining Hall West

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Session 5 / 2-2:45 p.m.

JOINT INTEREST SESSIONS

**Hobson Wildenthal Honors College: Terry Scholarship Program**
The Terry Scholars Program: More Than a Scholarship
Learn about the Terry Foundation Scholarship, which covers all expenses of a rigorous four-year academic education. Recipients take part in the prestigious Terry Scholars Program, which offers a diverse array of extracurricular experiences with a focus on service and leadership.
Blythe Torres
JSOM 1.212

**UT Dallas Education Abroad**
Whoosh Around the World: Take Your Learning Abroad
Karen Stepherson
JSOM 1.102

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Thank You for Attending Scholars’ Day!

The University of Texas at Dallas
Office of Admission and Enrollment
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Richardson, TX 75080
(972) 883-2270