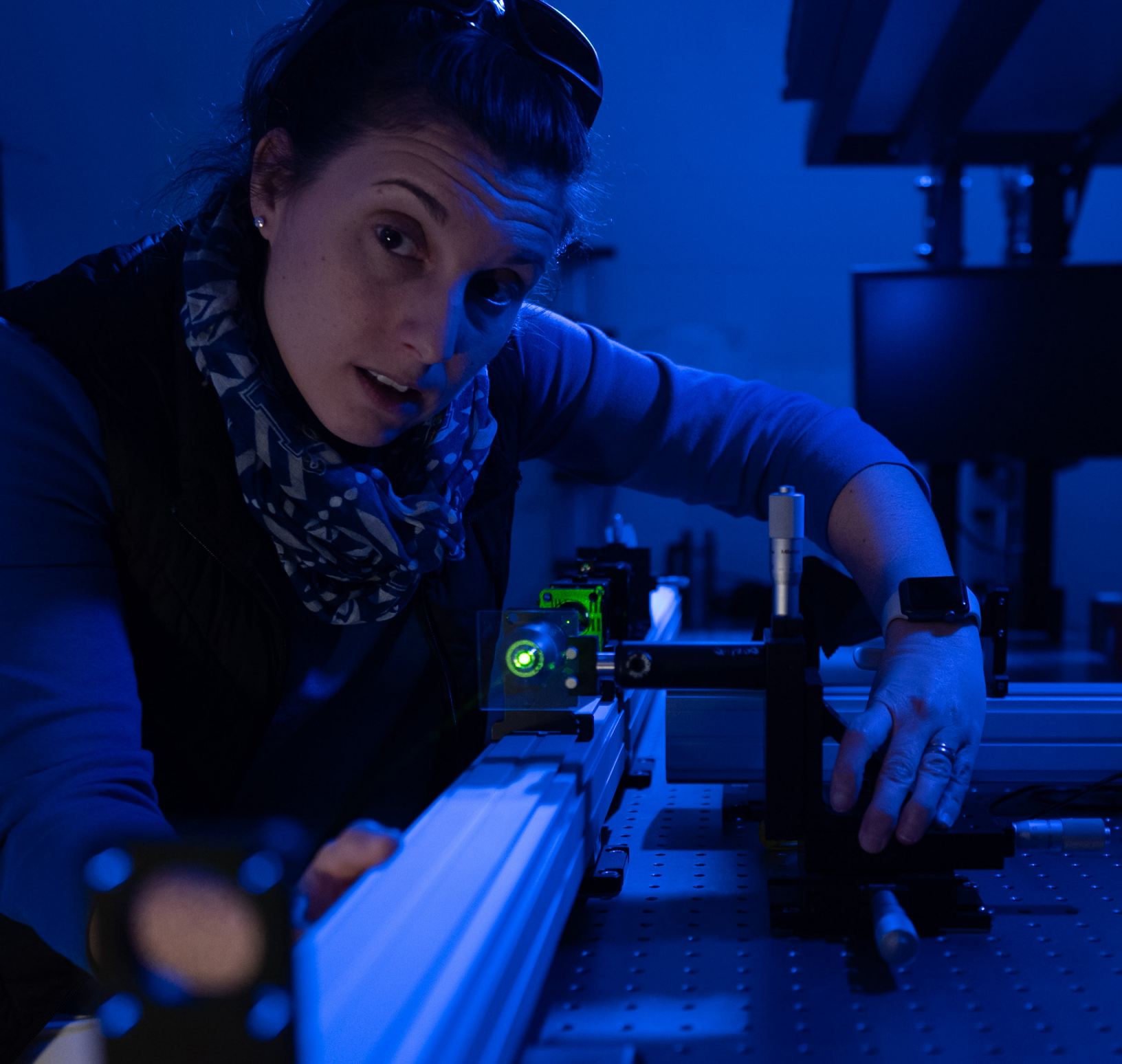THE UNIVERSITY OF
MEMPHIS®

RESEARCH
CELEBRATION

Highlighting research achievements;
Honoring first-time PIs and new PI Millionaires.

2023

April 6, 2023 | 2:30 PM

Maxine A. Smith University Center
River Room

A TENNESSEE FLAGSHIP
CARNEGIE R1 RESEARCH INSTITUTION

Opening Comments

Bill Hardgrave
President
University of Memphis

Jasbir Dhaliwal
Executive Vice President
Division of Research & Innovation

Presentation of Awards

Arthur C. Graesser Presidential Award for Lifetime Achievement in Research

Class of 2023 PI Millionaires

This year's PI millionaires join 121 of their UofM colleagues
in achieving this prestigious designation.

#122
Tracy Collins
Loewenberg College of Nursing

#123
Ali Fatemi
*Department of
Mechanical Engineering*

#124
Melissa Hirschi
Department Of Social Work

#125
Marian Levy
School of Public Health

#126
Kathryn Ramsey
Cecil C. Humphreys School of Law

#127
John Sabatini
Institute for Intelligent Systems

#128
Daniel Schaffzin
Cecil C. Humphreys School of Law

#129
Eraina Schauss
*Counseling, Educational
Psychology & Research*

#130
Matthew Smeltzer
School of Public Health

#131
Steven West
*Counseling, Educational
Psychology & Research*

#132
Jeremy Whittaker
Loewenberg College of Nursing

#133
Kan Yang
Department of Computer Science

#134
Todd Zoblotsky
*Center for Research in
Educational Policy*

First Time PIs

Recognitions

NSF Career Award Winners

Book Authors

High Impact Faculty

Research Support Staff

Reception

FY22 FIRST-TIME
PRINCIPAL INVESTIGATORS

Career Services
Alisha Rose

College of Health Sciences
Tracy Bruen
Jacquelyn Pence
Chidambaram Ramanathan
Michelle Stockton

**Department of
Biological Sciences**
Charles Kubicek

**Department of
Biomedical Engineering**
Carl Herickhoff

**Department of
Civil Engineering**
Farhad Jazaei

**Department of
Computer Science**
Xiaolei Huang
Weizi Li
Christos Papadopoulos
Myounggyu Won
Kan Yang

**Department of
Criminology and Justice**
Timothy McCuddy

Department of Earth Sciences
Youngsang Kwon

Department of English
Jerome Cusson

**Department of
Mathematical Sciences**
Misty Freeman

**Department of
Mechanical Engineering**
Daniel Foti

**Department of Physics
and Materials Science**
Shawn Pollard
Joanne Rhodes

**Department of World Languages
and Literatures - Spanish**
Adoracion Berry
Diana Ruggiero

**Engineering Student
Services & Diversity**
Isaiah Surbrook

**Department of Business
Information and Technology**
Huigang Liang
Napoleon Overton

Human Resources
Ryan Hall

**Instruction and
Curriculum Leadership**
Thouraya Al-Nasser
Sandra Nichols

Loewenberg College of Nursing
Tracy Collins
Bradley Harrell
Larry Slater
Jeremy Whittaker

Public Safety Institute
William Gibbons

Rudi E. Scheidt School of Music
Josef Hanson

School of Public Health
Jennifer Turchi

School of Public Health
Yu Jiang
Abu Mohammed Naser Titu
Mark Hendricks

Student Academic Success
Ophrah Payne

FY22 RESEARCH
PROFESSORSHIPS

As part of the University's push for top-tier Carnegie R1 status, the office of the Provost and the Division of Research & Innovation have partnered to celebrate research excellence on campus. As part of that recognition, they recently awarded twenty professorships to various UofM faculty. Those awarded include:

Andrew Olney | *CAS, Institute For Intelligent Systems*

Kathryn Howell | *CAS, Psychology*

Roger Kreuz | *CAS, Psychology*

Joy Goldsmith | *CCFA, Communication & Film*

Andre Johnson | *CCFA. Communication & Film*

Mary Wilson | *CCFA, School of Music*

Brandt Pence | *CHS*

Laura Casey | *COE, Instruction and Curriculum Leadership*

Gavin Bidelman | *CSD*

George Deitz | *FCBE, Marketing and Supply Chain Management*

Mark Gillenson | *FCBE, Business Information and Technology*

Jamin Speer | *FCBE, Economics*

Mihalis Gkolias | *HCOE, Civil Engineering*

Sabya Mishra | *HCOE, Civil Engineering*

Brian Waldron | *HCOE, Civil Engineering*

Eddie Jacobs | *HCOE, Electrical Computer Engineering*

Satish Kedia | *SPH*

Latrice Pichon | *SPH*

Matthew Smeltzer | *SPH*

Hongmei Zhang | *SPH*

FY22 RESEARCH
BOOK PUBLICATIONS

Beginning this year, the Division of Research & Innovation is tracking publications by our research faculty on an ongoing basis. To view the books published in FY22, follow the link below. Books published in FY23 can be sent to **researchdev@memphis.edu**.

To view, visit **bit.ly/UofMBooks**.

Congratulations to all our authors!

SPECIAL
RECOGNITION

Thomas Goebel
Center for Earthquake Research and Information
NSF Early Career Award

Earthquakes rarely occur in isolation but rather as intertwined sequences of fore, main and aftershocks. Events within a seismic sequence are linked by a process called triggering which is thought to be responsible for up to 90% o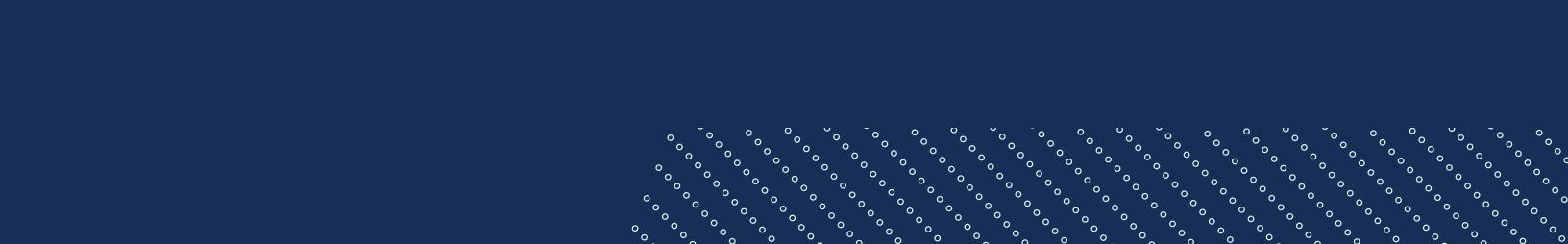f all earthquakes. The NSF-career project will concentrate on a multi-scale investigation of seismic triggering and aftershocks in lab and nature. We will use high-speed, broad-band optical and seismic instrumentation to detect triggered seismic events and to identify conditions that promote triggering.

Dipankar Dasgupta
Department of Computer Science
Arthur C. Graesser Presidential Award for Lifetime Achievement in Research

Dr. Dipankar Dasgupta, a widely admired higher education teacher and distinguished scholar, received the 2022 Arthur C. Presidential Award for Lifetime Achievement in Research. He is a Full Professor of Computer Science at the University of Memphis and joined the University of Memphis (UoM) in January 1997 and became a Full Professor in 2004. The Arthur C. Graesser Presidential Award for Lifetime Achievement in Research is given periodically to a full professor who has made significant contributions to the research enterprise and reputation of the University through an exemplary and sustained record of academic scholarship, research collaboration, mentoring, and university citizenship. Dr. Dasgupta has been significantly involved in research, education, and service activities.

Dr. Dasgupta developed pioneering research in AI-based cybersecurity with applications that include digital immunity, negative authentication, Cloud Insurance models, and Adaptive Multi-Factor Authentication. He is on the editorial board of five proceedings/journals and has around three hundred research papers in book chapters, journals, and international conference proceedings.

In 2007, Dr. Dasgupta was awarded the University's College of Arts & Sciences' Dunavant Professorship, a 3-year award for exceptional teaching, scholarship, service, and outreach achievement. He received the College of Arts & Sciences Distinguished Research Award twice (2002, 2006), the Sigma Xi Research Paper Award (2003), and the Early Career Research Award (1999). He is the recipient of the Dr. Pat E. Burleson's Professorship and the 2012 Willard R. Sparks Eminent Faculty Award, the highest distinction and most prestigious honor given to a faculty member by the University of Memphis. He is a William Hill Cybersecurity Professor at the University of Memphis. Among other professional recognitions, Dasgupta is an IEEE Fellow, Association for Computing Machinery (ACM) Life member, was an ACM Distinguished Speaker (2015-2020), IEEE Secure Learning Taskforce, and is currently appointed as an IEEE Distinguished Lecturer (2022-2024).

He has held over 400 international research talks in many countries as an expert in the scientific community. His 2017 interview on computational intelligence in cybersecurity with Dr. David Fogel highlights his engaged scholarship in the field (available at LinkedIn: **bit.ly/graesseraward2023**). Dasgupta's innovative research generated four issued patents and two patent applications, several of which have received federal funding and were

licensed. His most recent patent (Nov 2022) was awarded for a multi-user permission strategy to access sensitive information.

Some of his recent accomplishments include his election as a prestigious National Academy of Inventors (NAI) Fellow for the Class of 2022 and national leadership of a 15-University Consortium and presentation of their work at DoD University Consortium for Cybersecurity (UC2) Research Workshop hosted by the National Defense University at Fort McNair in Washington, DC. He also served as a Co-Chair of the IEEE Computational Intelligence in Cybersecurity (CICS) Symposium in Singapore from Dec. 4-7, 2022 where he presented a tutorial on "Machine Learning Applications, Adversarial Attacks, and Mitigation Strategies."

But, most importantly, if you ask Dr. Dasgupta what his greatest accomplishment is, he says it is not about his actions. His inspiration transfers his passion for the subject matter to students. Along with his knowledge transfer, accessibility, career guidance, quality of life, and feedback to his students, he inspires others and is dedicated to student success, which includes practicum experience. He supervised more than one hundred graduate and undergraduate students, including fourteen doctoral, five post-doctoral, and fifty master's students. His advisees are in highly technical positions at technology industry leaders including Google, Microsoft, Facebook, Apple, Discover Bank, Facebook, and Adobe. Some stories of his student successes are available from the CfIA website (**bit.ly/Dasguptastudent**).

Congratulations, Dr. Dasgupta!

FY 2022
PRINCIPAL INVESTIGATORS

James Adelman
Lily Afshar
Manohar Aggarwal
Mohd Ali
Thouraya Al-Nasser*
Alpha Ba
Debra Bartelli
Barbara Bekis
Brennan Berg
Kevin Berisso
Kristoffer Berlin
Adoracion Berry*
Christine Bertz
Gavin Bidelman
Richard Bloomer
Keri Brondo
Tracy Bruen*
Joel Bumgardner
Jon Burleson
Dorian Burnette
Laura Casey
Su Chen
Eunseo Choi
Kensha Clark
Tracy Collins*
Chris Cramer
Jerome Cusson*
Dipankar Dasgupta
Russell Deaton

Teressa Del Rosso
Elena Delavega
Nathan DeYonker
Ana Doblas
Randolph Dupont
Amanda Edgar
Susan Elswick
Ali Fatemi
Ryan Fisher
Daniel Foti*
Demetria Frank
Misty Freeman*
William Gibbons*
Elizabeth Gillespie
Michail Gkolias
Thomas Goebel
Ranganathan Gopalakrishnan
Wendy Griswold
Michael Hagge
Ryan Hall*
Josef Hanson*
Melvyn Harding
Bradley Harrell*
Tammy Haut Donahue
Alexander Headley
Mark Hendricks*
Carl Herickhoff*
Arleen Hill
Melissa Hirschi

Kathryn Howell
Xiangen Hu
Xiaolei Huang*
William Hunter
Richard Irwin
Stephanie Ivey
Eddie Jacobs
Wesley James
Farhad Jazaei*
Jessica Jennings
Chunrong Jia
Yu Jiang*
Carolyn Kaldon
Satish Kedia
Michael Kennedy
Charles Kubicek*
Santosh Kumar
Youngsang Kwon*
Christodoulos Kyriakopoulos
Charles Langston
Mohamed Laradji
Daniel Larsen
Irena Lasiecka
Justin Lawhead
Mark LeDoux
Robin Lennon-Dearing
Marian Levy
Weizi Li*
Huigang Liang*

* Denotes First Time PIs
Bolded names are FY22 PI Millionaires

Jennifer Mandel
Jeffrey Marchetta
Timothy McCuddy*****
Meghan McDevitt-Murphy
James McGinnis
Duane McKenna
Claudio Meier
James Meindl
Courtnee Melton-Fant
Sabyasachee Mishra
Shelia Moses
Francisco Muller Sanchez
James Murphy
Derek Myers
Fawaz Mzayek
Joshua Nave
Susan Neely-Barnes
Sandra Nichols*****
Napoleon Overton*****
Radesh Palakurthi
Christos Papadopoulos*****
Maxime Paquette
Abby Parrill-Baker
Philip Pavlik
Ophrah Payne*****
Jacquelyn Pence*****
Shahram Pezeshk
Latrice Pichon
Charles Pierce

Andrea Pirkey
Shawn Pollard*****
Robin Poston
Chrysanthe Preza
Emily Puckett
Chidambaram Ramanathan*****
Kathryn Ramsey
Meredith Ray
Joanne Rhodes*****
Aaron Robinson
Alisha Rose*****
Loretta Rudd
Diana Ruggiero*****
Vasile Rus
John Sabatini
Aaryani Sajja
Maryam Salehi Esfandarani
Daniel Schaffzin
Eraina Schauss
Chrisann Schiro-Geist
Michael Schmidt
Nicholas Simon
Paul Simone
Larry Slater*****
Robert Smalley
Matthew Smeltzer
Michelle Stockton*****
Jack Strahl
Genae Strong

Isaiah Surbrook*****
Thomas Sutter
Richard Sweigard
Abu Mohammed Naser Titu*****
Deborah Tollefsen
Jennifer Turchi*****
Brian Waldron
Lan Wang
Kenneth Ward
Gregory Washington
Thomas Watson
Karen Weddle-West
Steven West
James Whelan
Jeremy Whittaker***
Leah Windsor
Mitchell Withers
Myounggyu Won*****
Kan Yang***
Stephen Zanskas
Hongmei Zhang
Yufeng Zhang
Bentuo Zheng
Todd Zoblotsky

RESEARCH IMPACT
TOP FACULTY BY SCOPUS H-INDEX

FACULTY MEMBER	SCOPUS H-INDEX	DEPARTMENT
Bowlin, Gary	55	Department of Biomedical Engineering
Sutter, Tom	53	Department of Biological Sciences
Fatemi, Ali	52	Mechanical Engineering
Lasiecka, Irena	50	Department of Mathematical Sciences
Rudd, David	46	Department of Psychology
Ward, Kenneth	46	School of Public Health
Bollobas, Bela	45	Department of Mathematical Sciences
Lindner, Ernö	43	Department of Biomedical Engineering
Triggiani, Roberto	40	Department of Mathematical Sciences
Bumgardner, Joel	39	Department of Biomedical Engineering
Mishra, Sanjay	39	Department of Physics and Materials Science
Oller, Kimbrough	39	School of Communication Sciences and Disorders
Skalli, Omar	39	Department of Biological Sciences
Gallagher, Shaun	37	Department of Philosophy
Langston, Charles	37	Center for Earthquake Research and Information
Huang, Xiaohua	36	Department of Chemistry
Kumar, Santosh	35	Department of Computer Science
Liang, Huigang	35	Business Information and Technology
Parrill-Baker, Abby	34	Department of Chemistry
Yang, Kan	34	Department of Computer Science

About Scopus H-Index
The University of Memphis subscribes to Scopus, a database of citations and abstracts. An H-index of 40 means, for example, that a scientist has published 40 papers that each has at least 40 citations.

RECOGNITION OF
RESEARCH SUPPORT STAFF

The Division of Research & Innovation recognizes that the success of our faculty is, in part, thanks to the many pre-award coordinators, research support staff, and individuals across campus who help to ensure the success of the research enterprise at the University of Memphis.