

WISCONSIN INSTITUTE
FOR
DISCOVERY



2015
SPRING &
SUMMER
EVENTS

wid.wisc.edu/events

C4 John von Neumann
Public Lectures

Presented by the Center for Complexity and Collective Computation (C4), this monthly lecture series brings some of the best minds in academia and industry to campus.

7 P.M. — JAN. 21, FEB. 18, MARCH 11,
APRIL 8, MAY 13

The Ambitious Path of
Intrapreneurship

Hybrid Zone X explores ways in which entrepreneurially-minded innovative research can thrive within the confines of academic research institutions. These events are by registration only.

Image Lab Drawing Jams
and Workshops

Led by WID Faculty member and cartoonist Lynda Barry, Drawing Jams and Writing Workshops are held the FIRST SATURDAY OF EACH SCHOOL MONTH FROM 10 A.M. TO NOON AND 1:30 P.M. TO 4:30 P.M. respectively. Workshops are registration only.

Open Houses & Seminars

WID's Living Environments Laboratory hosts Researchers' Open Houses, focusing on collaboration and new research development EVERY FOURTH WEDNESDAY OF THE MONTH. The Optimization group hosts seminars on math topics each WEDNESDAY AT 12:30 P.M. throughout the semester.

WE STUDY THE INFORMATION SUPPORTING LIFE

The Wisconsin Institute for Discovery (WID) at the University of Wisconsin–Madison is growing into an internationally recognized center of excellence in transdisciplinary research and education. We focus on and are united by the incredible power of information and the perspective it brings to our understanding of the natural, technological and business worlds.

Our research in optimization, big data, virtual reality, microbial dynamics, epigenetics, high throughput and collective computation, and video games benefits from all that boundary-free creativity has to offer. In fact, our Image Lab subjects creativity itself to experimental investigation through sculpture, art and workshops.

Yet it is the connectivity among our research themes that is the source of many of our most exciting insights. Our Living Environments Laboratory (LEL) has forged meaningful collaborations big and small. Whether researchers are working to visualize subatomic particles in virtual reality with the IceCube Neutrino Observatory or collaborating with forensic investigators to better map out crime scenes, one thing is clear: visualization technology helps us ask big questions of widespread importance. We’ve even taken this to a personal level by using advanced lasers and imaging equipment to scan the homes of Wisconsinites in efforts to learn how their home environments affect their health. Our results will be shared and accessed by health care experts around the globe.

It is through connection and conversation that we make discoveries. We encourage you to join our network and partake in exploration with us.



**DAVID KRAKAUER,
DIRECTOR**

WID is a transdisciplinary research institute at the University of Wisconsin–Madison. The Institute is located in the award-winning Discovery Building, which also houses the private, non-profit Morgridge Institute for Research and the Town Center, a place for the community to discuss ideas and celebrate science.

RESEARCH AREAS

wid.wisc.edu/research

BIONATES

BIONATES researchers engineer biologically functional polymer and tissue scaffold environments to support cell growth, guide cell behavior, promote tissue generation and deliver life-saving drugs.

Center for Complexity and Collective Computation (C4)

The mission of C4 is to discover the information processing, regulatory and computational principles underlying the emergence of societies of cells and organisms in the history of life on Earth.

Core Computational Technology (CCT)

Acting as a connecting fabric across the Discovery Building, the UW–Madison campus and the world, CCT develops computing frameworks and provides cyberinfrastructure to support WID’s data-intensive research.

Epigenetics

Epigenetics examines how the epigenome—the layer of chemical information that sits on top of the genome—switches genes ‘on’ or ‘off’ and is controlled by outside factors such as lifestyle and diet.

Games+Learning+Society (GLS)

From iPad apps used in medical courses to engaging children’s video games, Games+Learning+Society investigates popular use of digital technologies and how they can be used to improve learning and public participation in science.

Living Environments Laboratory (LEL)

The LEL works to advance the science of virtual reality and design, while studying behavior and furthering health and innovative home care technologies.

Optimization

Optimization employs mathematical models to discover more efficient ways to control and manage systems, ranging from radiation treatments to data centers and power networks.

Systems Biology

Combining mathematical modeling, computer simulations and laboratory experiments, scientists in Systems Biology study how genes and molecules work together within organisms, and how organisms interact and evolve together within diverse communities.

PROGRAMS

wid.wisc.edu/programs

Hybrid Zone X (HzX)

HzX yields unconventional collaborations at the interface of research and business. Held twice yearly, HzX Exchanges convene select executives, entrepreneurs, scientists and technologists to explore relevant themes shaping the 21st century.

Image Lab

WID’s Image Lab is a flexible, active workspace dedicated to real-time creative activity to help encourage a different take on problem solving. Led by Lynda Barry, Discovery Fellow, assistant professor and cartoonist, the lab hosts a variety of projects and people, emphasizing a hands-on approach to creating conditions for insight and discovery.

Field Day Lab

The Field Day Lab co-creates dozens of mobile games, apps and hackathon events that explore the intersection of digital media design practices and contemporary education research.

FELLOWS

wid.wisc.edu/fellows

Discovery Fellows

WID unites creative minds focused on scientific projects and ideas by generating novel combinations of academics and collaborations.

Distinguished Scholars at Discovery

The Institute invites talented minds from outside academia to bring fresh perspectives to its core mission and values.

Frontier Fellows

Connecting forward-thinking UW–Madison undergraduates to the Institute’s network, WID offers fellowships in support of projects that expose students to a wider world of ideas.

Marie Christine Kohler Fellows at WID

Kohler Fellows work and collaborate in the Institute, connecting graduate students across campus through a range of stimulating events.

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