

# IGCC At A Glance

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## BY THE NUMBERS



88

AFFILIATES

21

FELLOWS

1,261

ALUMNI

10

UC  
CAMPUSES

2

NATIONAL  
LABS



## SINCE 2019



\$10 million

AWARDED IN COMPETITIVE FUNDING

343

ACADEMIC  
PUBLICATIONS

76

TRANSLATIONAL  
PUBLICATIONS

As of March 2024



# UC Institute on Global Conflict and Cooperation (IGCC)

Our mission is to use rigorous research, training, and engagement with decisionmakers to improve policies and practices in ways that help reduce conflict and improve global cooperation.

IGCC is a network of researchers from across the University of California and the Los Alamos and Lawrence Livermore National Laboratories that conducts policy-relevant research to mitigate conflict and promote a more peaceful world.

Our focus is on challenges that have the potential to lead to wide-scale conflict, and that can benefit from global cooperation to solve. Our portfolio includes both traditional security issues—defense innovation, strategy and deterrence, nuclear weapons policy, and security cooperation—and emerging challenges such as climate change, geoeconomics and great power competition, and threats to democracy. In each of these areas, IGCC builds diverse, multidisciplinary research teams that analyze the causes and consequences of global conflict—and help develop practical solutions.

# Research Themes



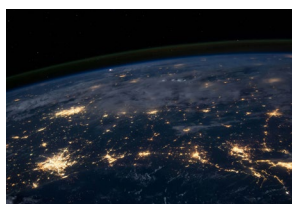
## **China and the Indo-Pacific**

IGCC research on China and the Indo-Pacific explores the implications of China's rise and shifting geopolitical dynamics in Asia for the economic competitiveness and national security of the United States and the rest of the world.



## **Climate Change and Security**

The effects of global climate change will challenge global governance systems, force a reimagining of the roles of defense communities, spark migration and border disputes, disrupt global trade, drive conflict, and threaten social cohesion and economic stability. IGCC's initiative on the security implications of climate change supports research that can inform international and national strategies as the world prepares for a fundamentally changed landscape.



## **Defense and National Security**

IGCC's program on defense and national security includes work on defense transparency and innovation, strategy and deterrence, and security cooperation. In this strand, IGCC combines research and educational activities with real-world action, including a track 1.5 dialogue—the Northeast Asia Cooperation Dialogue—and Catalyst, a matchmaking program designed to accelerate the adoption of new security relevant technologies.

# History

## **Early Days**

IGCC was established in 1983 out of concern among UC faculty about UC management of the weapons-building nuclear labs. Under the leadership of our first director, renowned physicist Herb York, we focused initially on nonproliferation and arms control.

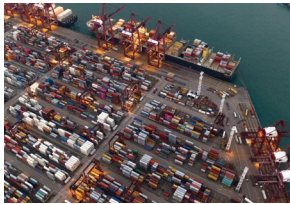
## **Expansion**

Over the years, we have grown our nuclear security work and expanded into other areas as conceptions of security have evolved and threats have changed. Following 9/11, for example, as attention to transnational threats from terrorism grew, IGCC supported research on counterterrorism and deterrence.



### **Future of Democracy**

Around the world, democracy is being challenged as never before. The Future of Democracy Initiative brings together UC experts to explore patterns of democratic continuity, crisis, adaptation, and resilience. Our work focuses on how the spread of open information technology, economic globalization, and rising authoritarian powers are driving democratic backsliding in some cases, and democratic resilience in others.



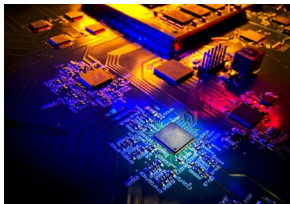
### **Goeconomics, Economic Security, and Great Power Competition**

IGCC's program on Goeconomics and Great Power Competition consists of academic research, education, and international engagement covering the political economy of security, the reform of the U.S. defense acquisition system, the role of industrial policy on national security issues, and the national security implications of foreign direct investment.



### **Nuclear Security**

A component of our international security portfolio, IGCC's nuclear security program works to improve international regime governance, engages with states pivotal to nonproliferation efforts, trains new generations of experts, and supports research on nuclear security policy through fellowships and faculty grants.



### **Science, Technology, and Innovation**

The almost overnight deployment of new technologies plays a large role in the changing strategic environment of the 21st century. IGCC-led projects on science, technology, and innovation bring together faculty in computer science, political science, international relations, economics, public policy, and law with industry and government experts to advance our understanding of the implications of these rapid technological shifts for global and national security.

#### **China's Rise and Emerging Tech**

The rise of China prompted our strand on great power competition, exploring a broad array of issues, including goeconomics, defense innovation, and supply chains. We have woven the role of emerging technologies into many of our initiatives, since these technologies promise to reshape the global landscape in unprecedented ways.

#### **A New Focus on Democracy and Climate**

The accelerating phenomenon of democratic backsliding and the rise of authoritarian powers drove a major new IGCC initiative on the Future of Democracy, which includes work exploring how and whether democracies are equipped to address the challenges associated with climate change. Our work on the security implications of climate change builds on historic IGCC work on the environment and explores a vital gap in social science research.

# Grants and Fellowships

## Doctoral Dissertation Fellowship

Each year, IGCC provides funding for graduate students from all ten UC campuses, including one specially designated Herb York Fellow, which honors our founding director. IGCC's dissertation fellowship supports diverse cohorts of UC graduate students conducting research on the most pressing global security challenges, and helps the fellows to write, conduct fieldwork, translate their findings, build networks, and train for effective policy engagement. IGCC has supported nearly 600 fellows since 1991 with more than \$6.2 million in funding. Many fellows go on to prestigious careers in academia, government, and policy.



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*IGCC allows its researchers to find a sweet spot between developing academic expertise and engaging in cutting-edge scientific debates, while also providing a platform—and incentives—for public engagement. IGCC is also able to draw on the incredible intellectual horsepower of the UC system.”*

—CULLEN HENDRIX, DISSERTATION FELLOW  
2004-05

## Postdoctoral Fellowship on Emerging Technology and International Security

Jointly supported by the University of California National Laboratories Office and the Los Alamos and Lawrence Livermore National Laboratories, IGCC's postdoctoral fellowship in technology and security supports junior scholars whose research generates new theoretical and empirical insights into the relationship between technology, national security, and the global security environment. Based out of IGCC's Washington, D.C. office at the UC Washington Center, fellows come from a mix of public and private universities; are trained in the social sciences and STEM fields; use a variety of qualitative, quantitative, and descriptive methods; and have career ambitions ranging from university-based professorships to federal government employment and other non-academic careers.

## Grants to UC Faculty

IGCC is dedicated to catalyzing innovative research across the UC system and to building networks of policy-engaged scholars. In 2022-23, IGCC provided grants to support: climate change and security research teams at UC San Diego, Irvine, and Berkeley; a conference on the Political Economy of the Environment at UC Los Angeles; the UC-wide Future of Democracy Initiative; and two UC San Diego workshops: the 2022 Political Economy of International Organization conference, and a conference on the environmental transformations that occurred in China during the Mao era.

IGCC also supports the annual UC Conference on International Cooperation (UCCIC), which, since 2016, connects junior and senior scholars across the UC system around issues of conflict and cooperation.



The 2023 Public Policy and Nuclear Threats Boot Camp was held at the UC San Diego campus in La Jolla, California from July 9 – July 29, 2023.

## Training Programs

### **Public Policy and Nuclear Threats (PPNT)**

#### **Boot Camp**

The summer workshop-in-residence at IGCC, known as PPNT, gives participants the knowledge and analytic tools they need to contribute to the debate on future U.S. nuclear policy. The boot camp features lectures, discussions, and debates—by distinguished researchers, academics, policy officials, and operational specialists from leading universities, the national laboratories, international organizations, and government agencies. Topics range from current nuclear threats, to international safeguards and nonproliferation strategies. Now in its 20th year, the course is part of IGCC's long-standing research theme on nuclear policy issues.

### **Chinese Defense and Strategic Innovation**

#### **Policy Training Program**

Each summer, IGCC provides a multi-day training course on Chinese Defense and Strategic Innovation Policy in Washington, D.C. Geared towards junior and mid-level government professionals, this course provides a comprehensive overview and detailed insights into China's efforts to become a global security and defense innovation powerhouse.



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*Our nation needs people who can think critically and objectively, who can think through three, four, or five positions at a time. IGCC is important because it brings together diverse minds and diverse experiences, and helps smart people get beyond their individually limited experiences.”*

—HUBAN GOWADIA, PPNT ALUMNA 2007

# Public Engagement

IGCC's mission is to help shape policy and practice in ways that reduce conflict and build peace and cooperation. To do this, we invest in ensuring our research makes a difference outside the academy. We place a premium on making sure that the issues we cover and things we are learning are accessible and known in the media and among the engaged public.

## Engagement in Our Nation's Capital

From our offices at the University of California Washington Center in Washington, D.C. IGCC supports UC scholars in their engagement with decisionmakers, think tanks, and universities. Many UC social science faculty aspire to be policy engaged but do not know how to grow their visibility among policy audiences. IGCC serves as a central hub for UC peace and security experts to access policymakers, facilitate collaborations and partnerships, and to raise the visibility of UC overall in the Washington, D.C. policy environment. The office also hosts six postdoctoral fellows in technology and international security, a program supported jointly by IGCC, the University of California National Laboratories Office, and the Los Alamos and Lawrence Livermore National Laboratories.



## Talking Policy Podcast

### **Where Are We Now? Two Years Since Russia's Invasion of Ukraine**

Featuring Jesse Driscoll (UC San Diego), Paul D'Anieri (UC Riverside), Jess Peake (UC Los Angeles), and Branislav Slantchev (UC San Diego)

### **China's Emergence as a Second Nuclear Peer**

Featuring Brad Roberts (Lawrence Livermore National Laboratory)

### **The Role of Citizens in Democratic Backsliding—and Resilience**

Featuring Sara Goodman (UC Irvine)



## Talking Policy Special Series: The State of the World

### **Episode 1: China**

Tai Ming Cheung (UC San Diego) and Susan Shirk (UC San Diego)

### **Episode 2: War**

Neil Narang (UC Santa Barbara) and Brandon Kinne (UC Davis)

### **Episode 3: Climate Change**

Richard Matthew (UC Irvine) and Fonna Forman (UC San Diego)

### **Episode 4: Democracy**

Emilie M. Hafner-Burton (UC San Diego) and Courtenay Monroe (UC Merced)

### **Episode 5: What Now?**

Governor Jerry Brown



## Policy Briefs

### **China's Push for Precision Medicine: Lessons for Science and Industrial Policies**

Larry Au

### **Climate Change and the Political Economy of Hydropower Disruption**

Johnathan Guy, Ishana Ratan, and  
Anthony Calacino

### **Explaining Norwegian Nuclear Allergy and South Korean Enthusiasm**

Chansong Cameron Lee

### **Is the Pursuit of Nukes Driven by Leaders or Systems?**

So Yeon (Ellen) Park

### **National Strategic Integration: How China Is Building Its Strategic Power**

Tai Ming Cheung

### **Re-engineering the Innovation Chain: How a New Phase of Government Intervention is Transforming China's Industrial Economy**

Barry Naughton

### **Security at Sea: A Turning Point in Maritime**

Scott Tai



## Working Papers

### **Commitment Ambiguity and Ambition in Climate Pledges**

Vegard Tørstad and Vegard Wiborg

### **Global Governance under Populism: The Challenge of Information Suppression**

Allison Carnegie, Richard Clark,  
and Noah Zucker

### **Natural Resource Dependence and Environmental Mobilization**

Austin Beacham

### **The International Liberal Foundations of Democratic Backsliding**

Emilie M. Hafner-Burton and  
Christina Schneider

### **The Spread of (Mis)information: A Social Media Experiment in Pakistan**

Arman Rezaee



## Report

### **Science, Philanthropy, and American Leadership**

Peter F. Cowhey, Joshua Graff Zivin, et al.

## Alumni Confidential



### **Rupal Mehta**

University of  
Nebraska-Lincoln  
*PPNT alumna 2012-2013*



### **Kim Budil**

Lawrence Livermore  
National Laboratory  
*PPNT alumna 2007*



### **Cullen Hendrix**

Peterson Institute for  
International Economics  
*Dissertation Fellow  
2004-2005*



### **Kori Schake**

American Enterprise  
Institute  
*IGCC alumna*

## Leadership



**Tai Ming Cheung**

Director  
UC San Diego



**Lindsay Morgan**

Associate Director



**Neil Narang**

Research Director for U.S. and  
Global Security Initiatives  
UC Santa Barbara



**Emilie M. Hafner-Burton**

Research Director  
for Democracy Studies  
UC San Diego



**Stephan Haggard**

Research Director for  
Democracy and Global  
Governance  
UC San Diego



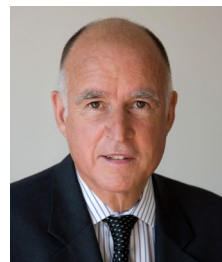
**Richard Matthew**

Research Director for Climate  
Change and Security  
UC Irvine



**Eli Berman**

Research Director for  
International Security Studies  
UC San Diego



**Gov. Jerry Brown**

Advisory Board Chair



**Susan Shirk**

Director Emeritus  
UC San Diego



## Our Partners

21st Century China Center

U.S. State Department

Carnegie Corporation of New York

Center for Security and Emerging Technology

Lawrence Livermore National Laboratory

Los Alamos National Laboratory

Mercator Institute for China Studies (MERICS)

Minerva Initiative, Department of Defense

National Nuclear Security Administration, Department of Energy

Office of Naval Research

Rhodium Group

Schmidt Futures

Semiconductor Industry Association

Silicon Valley Defense Group

Smith Richardson Foundation

The Stanton Foundation

University of California Office of the President

UC Washington Center





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