Library Collaboration with an International Energy Research Institute

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International Institute for Carbon-Neutral Energy Research (I²CNER)

Member of the World Premier International (WPI) Research Center Initiative launched by Japan government and affiliated with the U.S. Department of Energy

Based at Kyushu University, Fukuoka, Japan

Director is Mechanical Engineering faculty member at University of Illinois

The objective of I²CNER is to develop the science required to eliminate barriers and enable the technological breakthroughs necessary for a hydrogen-based society and efficient CO₂ capture and sequestration

Multidisciplinary research institute; faculty in chemistry, materials science, mechanical and nuclear engineering, geoscience, physics, science librarianship, and STEM Education

Library cooperative agreement is a piece within a large multi-institutional research project.
Kyushu University
- A leading world institution on hydrogen research
- Library emphasis on science & engineering

“International Institute for Carbon-Neutral Energy Research”

University of Illinois
- Long history of international hydrogen & related materials research
- Outstanding Library

“Satellite Institute”
- Facilitates collaboration and personnel exchanges

Scientific Collaboration and Research Exchanges

Chemistry  Physics  Biomimetics  Materials Science  Mechanics  Oceanic Science  Geology
Library and Researcher Collaborations

- Development of special tools and services for I²CNER researchers including research productivity tools
- Implementation of a custom database of researcher publications and associated project data
- Scientist social networking via HUBzero and Box.com technologies
- A just-in-case document delivery for I²CNER researchers
- A joint data curation and data stewardship support structure
- Coordination and assistance with depositing reports in the two Library Institutional Repositories
- Shared Web-Scale Discovery system applications
International Institute for Carbon Neutral Energy Research (I2CNER) Information Resources

Faculty/Researcher Publications
- Hydrogen Production Division
- Fuel Cells Division
- Carbon Capture and Storage Division
- Advanced Materials Transformations
- CO2 Separation and Concentration Division
- Hydrogen Structural Materials Division
- Thermophysical Properties Division
- Hydrogen Storage Division
- Advanced Materials Transformations

Key Journals
- Acta Materialia
- Advanced Functional Materials
- Advanced Materials
- Curr Opin in Solid State & Mat Sci
- Engineering Fracture Mechanics
- Int Jnl of Hydrogen Energy
- Int Jnl of Solids and Structures
- International Jnl of Fracture
- International Journal of Fatigue
- Jnl of Pressure Vessel Technology
- Jnl of the Mech and Phys of Solids
- Journal of Electroceramics
- Journal of Materials Research
- Journal of Nuclear Materials
- Met and Mat Trans A, Physical Met & Mat Sci
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- Scopus
- Compendex (Engineering Index)
- Web of Science (ISI)

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