







- At UW Madison since 1997
- Professor, Department of Physics, UW Madison
- IceCube: Co-PI IceCube Maintenance and Operation, PI IceCube Upgrade, Associate Director IceCube Science and Instrumentation
- Research focus: Diffuse neutrino flux, focus on lower energies with self-veto techniques.

IceCube Neutrino Observatory Organization





University of Wisconsin-Madison

- J. Mnookin, Chancellor
- C. Czajkowski, Vice Chancellor for Research (Interim)

National Science Foundation

International Oversight and Finance Group

International Funding Agencies

Wisconsin IceCube Particle Astrophysics Center (WIPAC)

- J. Madsen, Director
- C. Lowney, Assoc. Director
- A. King-Klemperer, Communications K. Nutting, Business IT Support

IceCube Neutrino Observatory

- F. Halzen, Principal Investigator
- J. Kelley, Director of Operations A. Karle, Associate Director for

Science & Instrumentation

Quality & Safety - M. Zernick (UW)

Data Transfer and Archive

Distributed Computing

Networking and Facilities

IceTray Framework/Development

Offline Processing Software

Production Software

Data Archive at DESY

Data Archive at LBNL

Simulation Software

Data Management

Data Processing

Software - TBD

Computing & Data Mgt. - B. Riedel, UW Manager

Data Storage Sys. & Cybersecurity S. Barnet (UW)

J. Madsen, Associate Director for Education & Outreach

Science Advisory Committee

B. Barish, Caltech, Chair

Software & Computing Advisory Panel

M. Delfino, PIC, Chair

P. Meade (UW)

A. Sheperd (UW)

S. Barnet (UW)

S. Klein (LBNL)

T. Yuan (UW)

D. Schultz (UW)

K. Leffhalm (DESY)

D. La Dieu (Maryland)

M. Larson (Maryland)

TBD (UW)

V. Brik (UW)

IceCube Collaboration Board

Spokesperson & Executive

Committee Chair, I. Taboada (GTech) Pub. Comm. Chair, E. O'Sullivan (Uppsala)

Speakers Comm. Chair, A. Ishihara (Chiba) IceCube-Gen2 Coordination Comm. Chair,

M. Kowalski (DESY)

Maintenance & Operations

Detector M&O - M. Kauer, UW Manager

Run Coordination M. Kauer (UW, Deputy Manager)

DAQ T. Bendfelt (UW)
Supernova DAQ S. BenZvi (Rochester)
Processing & Filtering E. Blaufuss (Maryland)
IceTop Operations S. Tilav (Delaware)
IceCube Live M. Frère (UW)

South Pole System &

Test System R. Auer (UW)

Calibration - M. Rongen (Erlangen) / D. Williams (Alabama)

Data Processing & Simulation – J.C. Díaz Vélez (UW)

Offline Data Production R. Snihur (UW)
Simulation Production K. Meagher (UW)

Program Coordination – L. Mercier (UW)

Collaboration Simulation Production Centers:

Belgium: IIHE-Brussels; Canada: Alberta; Japan: Chiba Germany: DESY, Aachen, Dortmund, Wuppertal, Mainz

US: UW (NPX, GZK, CHTC, OSG), UMD, UDEL, LBNL/NERSC, PSU, Alabama

South Pole Logistics, R&D Support – M. Kauer (UW)

B. Riedel (UW)

Passures

Resource Coordination

L. Mercier (UW)

Coordination

Committee Chair

TFT Coordination

N. Whitehorn (MSU)

Real-Time Oversight Committee

M. Santander (Alabama)

Working Groups

Analysis Coordinator – J.A. Aguilar (ULB)

Deputy Analysis Coordinator – N. Kurahashi Neilson (Drexel)

IceCube Upgrade Coordinator –

J.P. Yañez (Alberta)

Technical Coordinator –

B. Riedel (UW)

Collaboration Working Groups:
Diversity, Equity & Inclusion

Analysis Working Groups:

Diffuse

Neutrino Sources

Beyond Standard Model Cosmic Rays

Oscillation Supernova

Technical Working Groups:

Real-time Calibration

Reconstruction







Software and Computing Advisory Panel

Members:

- Lothar Bauerdick (FNAL, Chair)
- Peter Couvares (Caltech)
- Sridhara Dasu (UW-Madison)
- Miron Livny (UW-Madison)
- Peter Elmer (Princeton / CERN)
- Gonzalo Merino (PIC)
- Mark Neubauer (UIUC)
- Terry Schalk (UCSC)
- Frank Wuerthwein (UCSD)

Background:

Established in 2009

Objective: The SCAP advises the IceCube Spokesperson(s) and Director on the following topics: online computing, online and offline data processing and filtering, off-line computing facilities, and simulations and analysis support.

A written report is provided following each meeting.

Meeting history: 2009, 2010, 2011, 2014, 2016, 2018, 2021.





Science Advisory Committee

Members:

- Barry Barish, CalTech (Chair)
- Rene Ong, UCLA
- Stan Bentvelsen, NIKHEF
- Dave Nygren, UT Arlington
- Jim Yeck, UW-Madison/Brookhaven
- Tatsuya Nakada, EPFL, Lausanne
- Peter Meszaros, Penn State

Background:

Established in 2006

Objective: ~ Advise ICNO and the Collaboration on strategies to maximize future science.

Eg. 2017: IceCube Upgrade (Phase 1) strategy.

Meeting history: 2006, 2007, 2008, 2009, 2010,

2011, 2013, 2015, 2016, 2017

Next meeting:

May 2024

Focus on future developments: Upgrade, IceCube-Gen2.



International Oversight and Finance Group



Members:

- Jean Cottam Allen (NSF/OPP Acting Director, USA)
- Christian Stegmann (DESY, Germany) / Ralph Engel (KIT/Helmholtz, Germany)
- Marc Hempel (Federal Ministry of Education and Research (BMBF), Germany)
- Tomas Andersson (Swedish Research Council, Sweden)
- Katarina Gårdfeldt (Swedish Polar Research Secretariat, Sweden)
- Jorgen d'Hondt (Research Foundation Flanders (FWO), Belgium)
- Laurent Favart (National Fund for Scientific Research (FRS-FNRS), Belgium)
- Takeshi Yamamoto (Ministry of Education, Sports, Science and Technology (MEXT) /
- Aya Ishihara (Chiba), Japan)
- Suguru Nakamura (MEXT/Basic & Generic Research, Japan)

Background:

The IOFG was created in 2004 to provide oversight and financial support for the ICNO (including construction, M&O, and research phases). The group organizes oversight reviews to discuss detector performance and physics.

Objective:

Issues that may come before the group include (from Governance document)

- · Approval of a formal charter for the Group.
- Review of Memoranda of Understanding (MOU) between the various institutions.
- Concurrence on the Maintenance and Operations Plan.
- Revised institutional MoU's and Annual Common Fund Report.
- · Funding issues.
- Coordination regarding press releases and education and outreach activities.
- Input on seasonal flight and personnel logistics planning.
- Other matters related to successful operation of the IceCube Neutrino Observatory for science.

Meeting history: Meets typically annually



International Oversight and Finance Group



- Review of Memoranda of Understanding (MOU) between the various institutions.
- Concurrence on the Maintenance and Operations Plan.
- Revised institutional MoU's and Annual Common Fund Report.
- Funding issues.
- Other matters related to successful operation of the IceCube Neutrino Observatory for science.
- Construction effort of IceCube Upgrade
- Future developments, IceCube-Gen2

