



# Surviving IceCube



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Yes you can!!!



Enjoying

~~Surviving~~ IceCube

Yes you can!!!  
Lots of fun (most times)

# Useful resources

I wish I could tell you that it's easy to find all the information, but it's not. Be patient !! (and verify what you find it's not obsolete)

✗ Wiki: [wiki.icecube.wisc.edu](http://wiki.icecube.wisc.edu)

→ working groups, phone calls, analyses, papers

✗ Docushare: <https://docushare.icecube.wisc.edu/dsweb/HomePage>

✗ Google drive:

<https://drive.google.com/drive/folders/0ByNbmXZGFYM7QUxJWXINcUNrLVE>

✗ Software: <http://software.icecube.wisc.edu> + links on same page

✗ Mailing lists: [lists.icecube.wisc.edu](http://lists.icecube.wisc.edu)

✗ Slack channel: <https://icecube-spno.slack.com>

→ join: [https://wiki.icecube.wisc.edu/index.php/Join\\_us\\_on\\_Slack](https://wiki.icecube.wisc.edu/index.php/Join_us_on_Slack)

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→ working groups, phone calls, analyses, papers

× D

× G

[http](http://)

You could easily spend most of your day on the phone or reading

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>300 people

# THE ICECUBE COLLABORATION

 **AUSTRALIA**  
University of Adelaide

 **BELGIUM**  
Université libre de Bruxelles  
Universiteit Gent  
Vrije Universiteit Brussel

 **CANADA**  
SNOLAB  
University of Alberta-Edmonton

 **DENMARK**  
University of Copenhagen


 **GERMANY**  
Deutsches Elektronen-Synchrotron  
ECAP, Universität Erlangen-Nürnberg  
Humboldt-Universität zu Berlin  
Ruhr-Universität Bochum  
RWTH Aachen University  
Technische Universität Dortmund  
Technische Universität München  
Universität Mainz  
Universität Wuppertal  
Westfälische Wilhelms-Universität  
Münster


 **JAPAN**  
Chiba University

 **NEW ZEALAND**  
University of Canterbury

 **REPUBLIC OF KOREA**  
Sungkyunkwan University

 **SWEDEN**  
Stockholms Universitet  
Uppsala Universitet

 **SWITZERLAND**  
Université de Genève

 **UNITED KINGDOM**  
University of Oxford

 **UNITED STATES**  
Clark Atlanta University  
Drexel University  
Georgia Institute of Technology  
Lawrence Berkeley National Lab  
Marquette University  
Massachusetts Institute of Technology  
Michigan State University  
Ohio State University  
Pennsylvania State University  
South Dakota School of Mines and  
Technology

Southern University  
and A&M College  
Stony Brook University  
University of Alabama  
University of Alaska Anchorage  
University of Alaska, Berkeley  
University of California, Irvine  
University of Delaware  
University of Kansas  
University of Maryland  
University of Rochester  
University of Texas at Arlington

University of Wisconsin-Madison  
University of Wisconsin-River Falls  
Yale University

## FUNDING AGENCIES

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(FWO-Vlaanderen)

Federal Ministry of Education and Research (BMBWF)  
German Research Foundation (DFG)  
Deutsches Elektronen-Synchrotron (DESY)

Japan Society for the Promotion of Science (JSPS)  
Knut and Alice Wallenberg Foundation  
Swedish Polar Research Secretariat

The Swedish Research Council (VR)  
University of Wisconsin Alumni Research Foundation (WARF)  
US National Science Foundation (NSF)



icecube.wisc.edu



## When do I become an author?

As a rule collaborators may become authors six months after joining the collaboration. They are normally removed from the list one year after leaving. This period may be extended in special cases of former collaborators who contributed essential effort to the construction of IceCube.

Author list (browsable by date):

<http://www.fysik.su.se/~walck/icecube/authors/IsKub.php>

# ICB

- ✗ **Current Governance Document** (revised every ~year):  
<https://docushare.icecube.wisc.edu/dsweb/Get/Document-75963/icc-governance-v8.4%20-%202015.1113.pdf>
- From docushare folder (you'll never find it otherwise):  
<https://docushare.icecube.wisc.edu/dsweb/View/Collection-1260>
- ✗ **IceCube Collaboration Board (ICB)**: includes two PI s from each institution, meets a few times during each collaboration meeting. One vote per institution weighted proportionally to the number of PhD in the institution.
- ✗ Fee is paid by each institution to the “**Common fund**” proportional to number of Phd scientists
- ✗ **Darren Grant** is our current spokesperson





Each Collaboration Constituent Institution is represented on the Collaboration Board by at most two members of whom one is voting whereas the other is a non-voting adjunct member. The number of votes per institution depends on number of Ph.D. physicists (see for the key section 6 below).

# Early Career Scientists

- ✗ Member of the IceCube collaboration who has received their Ph. D. within 7 years of the most recent past January 1st, but who has not received an assistant professor or tenured position; or who is a graduate student who has been on the author list for two years
- ✗ Only Early Career scientists who have received their Ph. D. can be nominated to representatives
- ✗ **Election**: Each EC scientist possesses one vote. One is allowed to vote for one's self. Votes are counted privately by the oversight committee
- ✗ **Scope**: bring up young scientists' issues to be discussed at the ICB meetings
- ✗ One vote in ICB
- ✗ **Current representatives**: Donglia Xu (WIPAC) and Jakob VanSanten (DESY, until December 2017)



Early Career scientists in the Collaboration are represented by two additional, at-large, members chosen collectively by Early-Career Collaboration participants. The term of service is two years, not renewable, and the terms overlap – i.e. one new representative is elected every year. Election rules for Early Career scientists are given in Appendix B. Of the two members, one is voting whereas the other is a non-voting adjunct member.

# Committees

- ✗ **Publication committee**: will I ever publish my paper?
- ✗ **Speakers committee**: can I go to this conference?
- ✗ **TFT board**: can I get this data from pole?
- ✗ **Simulation panel**: can I have this dataset simulated?
- ✗ **Coordination committee**: can I take flasher data?
- ✗ **Working groups**: does my analysis make any sense?

# Collaboration meetings

- ✗ **Twice a year**, once in Europe and once in US (in Madison every two years)
- ✗ So far: spring in US, fall in Europe
- ✗ Very busy meetings, usually ~5 days IceCube, often preceded by **pre-meetings** (2-4 days) and **post-meetings** (MANTS in Europe every two years, IPA in Madison every two years, workshops etc..) → often it's a 10 days deal
- ✗ Plus: lots of **social events** (organized and not) which you will want to attend
- ✗ Can be very heavy! It's easy to feel burnt out.
- ✗ Often load of work (for you and computers) increases in the weeks before the meeting
- ✗ Suggestion: plan on taking it easy immediately after

# Will I go to Pole???????

- ✗ You can't know for sure
- ✗ Most people think it's an awesome experience but some hated it.
- ✗ It was much easier during construction (~50 people would go every year, but lots of them were drillers)
- ✗ Now we send maybe **10-15 people every year** (including WinterOvers), and only a few are students
- ✗ There is a call every year (mid to late winter) to candidate
- ✗ A **committee** will choose the number allowed by the population plan for the year
- ✗ What weights in the choice:
  - **service work !! service work!!!**
  - fit to specific activities planned for the season
  - number of years in IceCube



Enjoy  
IceCube!

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