

IceCube Software and Computing Advisory Panel Meeting 2018

Charge and Agenda

Background

The IceCube Software and Computing Advisory Panel (SCAP) was established in 2009. It comprises experts in the fields of software development, scientific computing, and massive distributed computing. The SCAP advises the IceCube Spokesperson and the Director of Operations on the following topics: online computing; online and offline data processing and filtering; computing facilities; and simulations and analysis support. A written report is provided following each meeting.

Current Membership

- Manuel Delfino, Port d'Informacio Cientifica (PIC);
- Sridhara Dasu, University of Wisconsin, CMS;
- Lothar Bauerdick, FNAL, CMS;
- Peter Couvares, Syracuse, LIGO;
- Miron Livny (ex-officio), University of Wisconsin, OSG.

Charge to Committee

1. **Review on the effectiveness of M&O teams to deliver software and computing services to the collaboration based on the priorities established with science working groups.** IceCube science is proceeding at a fast pace and data analyses have shifted towards some degree of consolidation. Science working groups have been restructured to reflect the current analysis operation scheme. All operation activities that rely on in-kind contributions (software, calibration, simulation production) are being revised to properly address the communication between science working groups and operation teams. The aim is to gather adequate computing resource requirements that reflect the true needs of the analyses.
2. **Evaluate our new procedures to establish an internal policy of science result reproducibility and on public data release.** IceCube is about to start implementing an internal procedure aimed to fully document the details of all data analyses that are published in refereed journals. Such internal data repository is designed to make science results reproducible and to be the source of information for the IceCube public data releases.
3. **Evaluate our expansion of computing capabilities to reach IceCube science goals.** IceCube is expanding the distributed computing infrastructure with resources pledged by the collaborating institutions, supercomputers and commercial cloud providers. The tests are promising and are

going to lead us towards new opportunities, addressing issues of adaptive and fast response to the IceCube science goals.

Teleconference Information

For those unable to attend physically, we are providing a Zoom channel

Topic: IceCube SCAP Meeting 2018

Time: Jun 4, 2018 8:30 AM Central Time (US and Canada)

Jun 5, 2018 8:30 AM Central Time (US and Canada)

Join from PC, Mac, Linux, iOS or Android:

<https://wipac-science.zoom.us/j/263215754>

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1 646 876 9923 or +1 669 900 6833 or +1 877 369 0926 (Toll Free) or +1 877

853 5247 (Toll Free)

Meeting ID: 263 215 754

International numbers available: <https://zoom.us/u/cL4rPO3IT>

Presentation Material Collection

Docushare collection #12012: <https://docushare.icecube.wisc.edu/dsweb/View/Collection-12012>. For access you will need either your IceCube LDAP account or

Username: icecube-scap

Password: ComputingBestPractices!

Agenda

Monday 4 June - Supernova Conference Room

Time	Dur (min)	Title	Speaker
09:00	10	Introduction and Project Status	K. Hanson
09:15	10	Collaboration Report	D. Grant
09:30	20	IceCube Science - the New Era of MMA	F. Halzen
10:00	20	Computing Services and Infrastructure	G. Merino

10:30	Break		
10:50	10	South Pole Computing / DAQ	J. Kelley
11:05	10	The Production Framework: IceProd	D. Schultz
11:20	10	Data Management Tools	P. Meade
11:35	10	Pass II Processing	J. C. Diaz-Velez
11:50	10	IceCube Realtime Alerts: Status and Plans	E. Blaufuss
12:05	Lunch		
13:00	15	Internal Data Releases	P. Desiati
13:25	15	Public Data Releases	E. Blaufuss
13:50	25	IceCube Analysis Needs	D. Williams
14:30	Break		
15:00	25	Simulation Software	A. Olivas
15:40	25	Simulation Production: Resource Estimation	J. C. Diaz-Velez
16:20	25	Coordination Between IceCube M&O and Science	P. Desiati
17:00	45	Closed session panel	
17:45	45	Open session - questions / requests for info	
19:00	Dinner : Sardine 617 Williamson St		

Tuesday 5 June, 2018

08:30	Responses to questions for SCAP and discussion. Opportunity for breakout sessions on selection topics, if needed.
10:30	Panel report writing and preparation for closeout.
12:00	Panel working lunch
13:00	Close out