Gollaboration Report

M&O Review - March 2019

ICECUBE

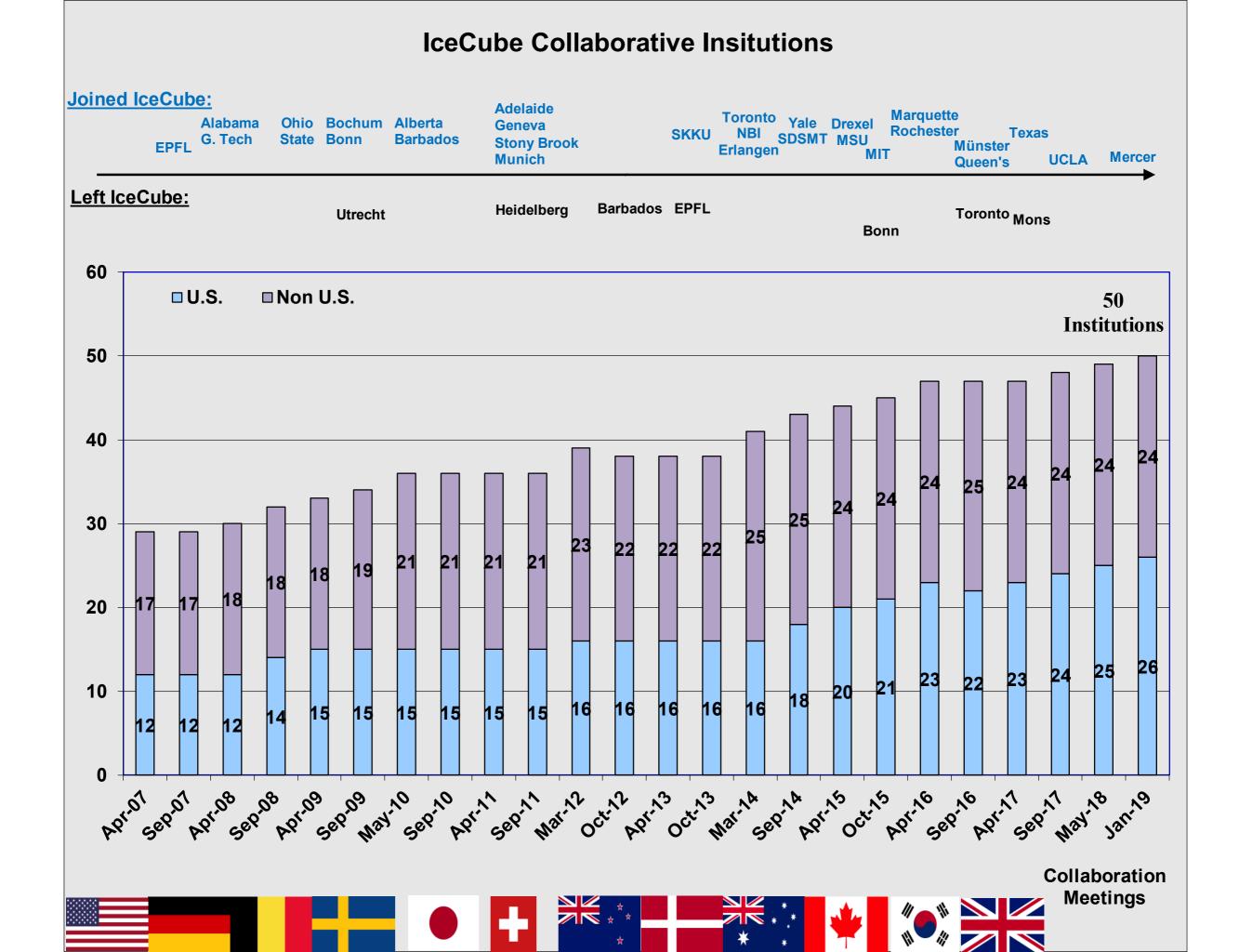


IceCube Collaboration - Stockholm 2018

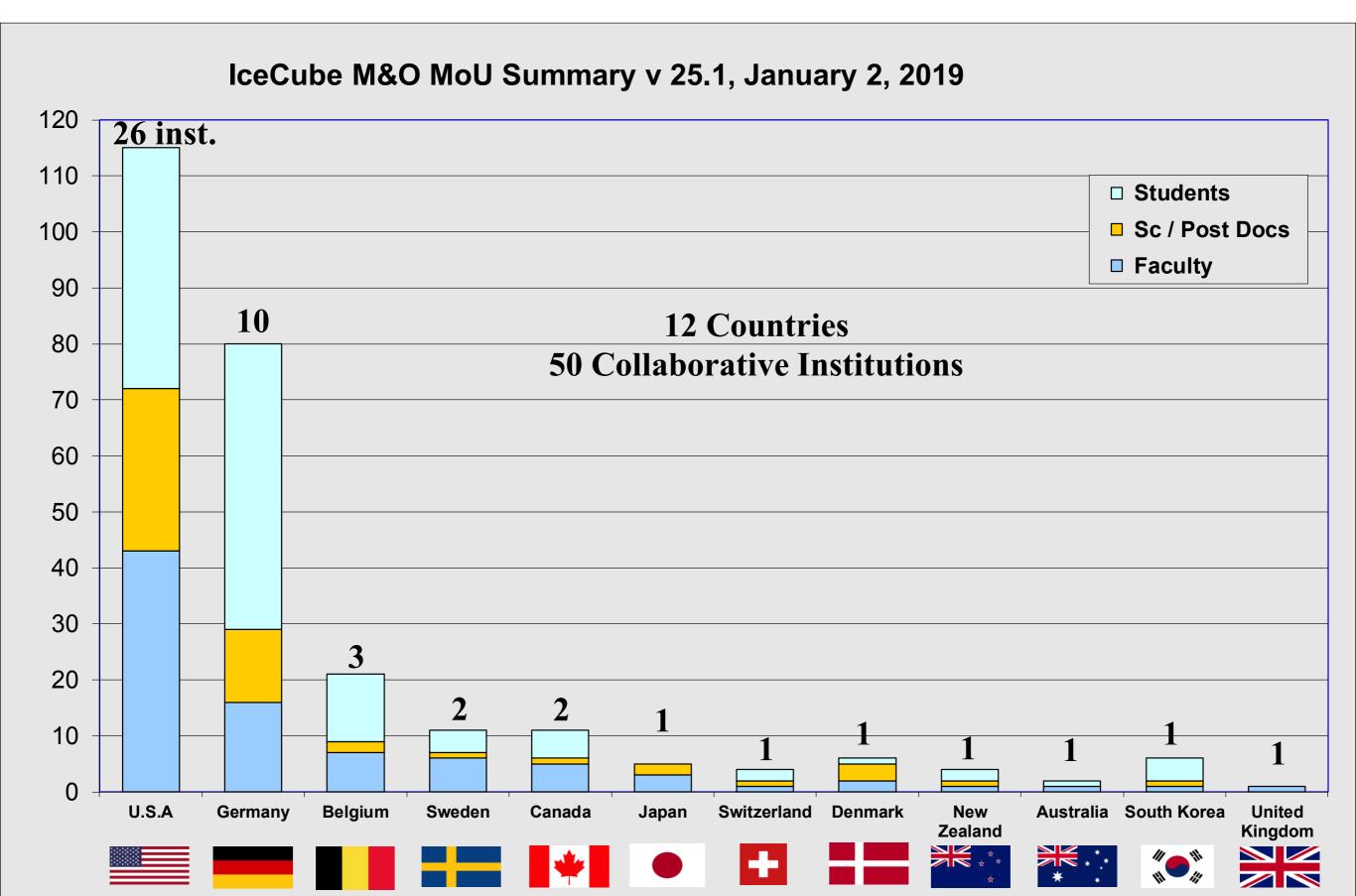
A remarkable and diverse group of ~300 scientists working in synergy with the M&O team to realize the project's science objectives

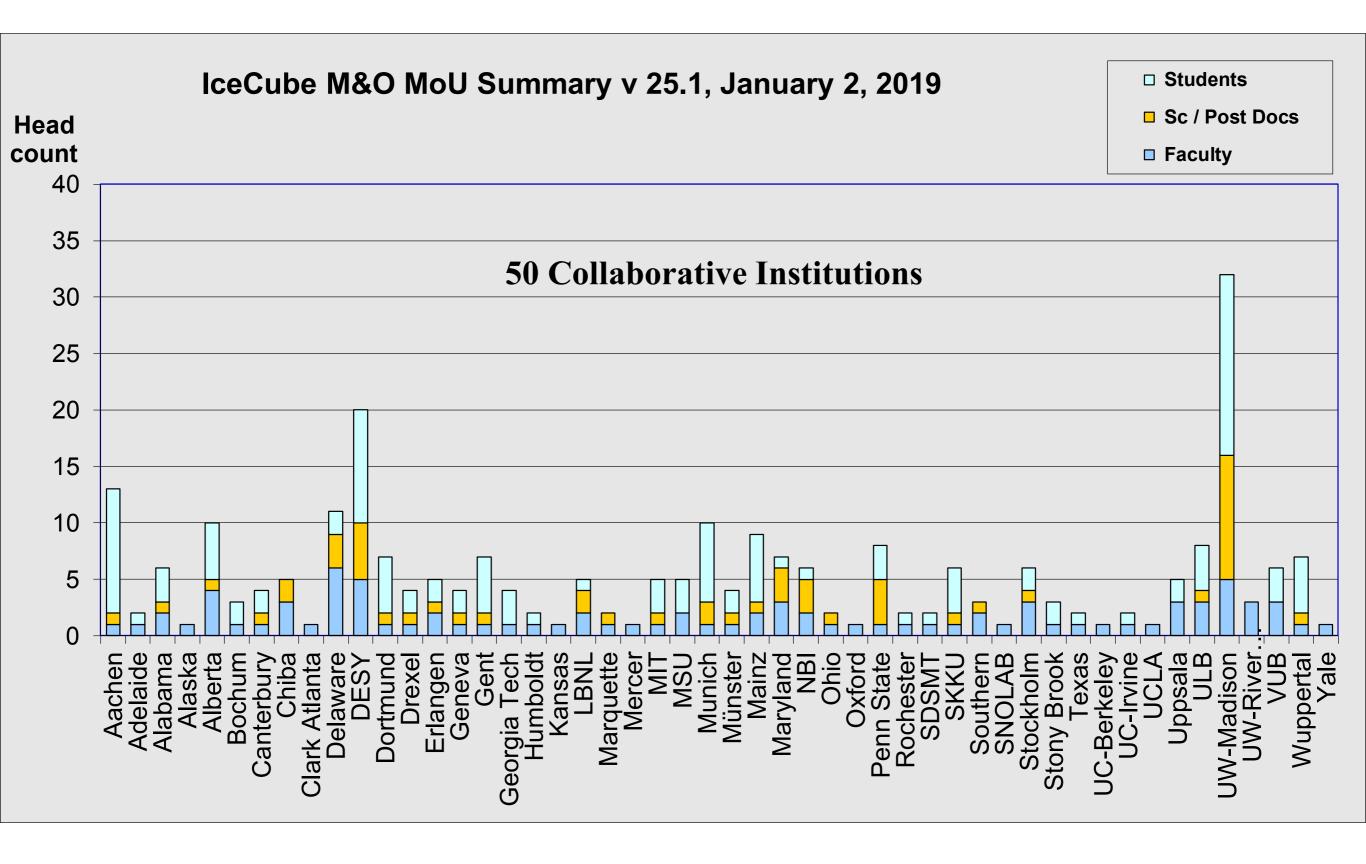
IceCube by the numbers*

*many thanks Catherine!



IceCube Collaborative Instituions



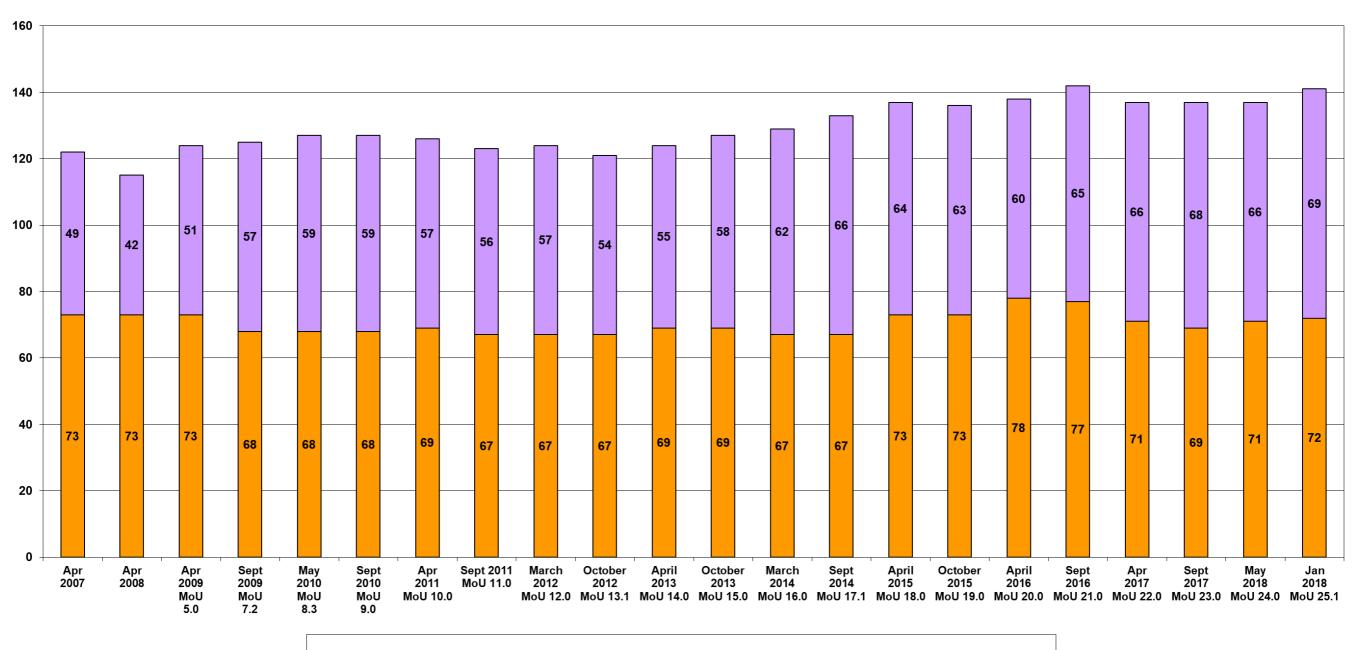


IceCube M&O MoU Head Count Summary

v24.0, May 2018	Head Count					
	Ph.D. Authors	Faculty	Scientists / Post Docs	Students	Total	
U.S. Institutions Subtotal	71	42	29	39	110	
Non-U.S. Institutions Subtotal	67	41	26	75	142	
Total U.S. & Non-U.S.	138	83	55	114	252	
	a + b	(a)	(b)	(c)	a + b + c	

v25.1, January 2019		Head Count					
	Ph.D. Authors	Faculty	Scientists / Post Docs	Students	Total		
U.S. Institutions Subtotal	72	43	29	43	115		
Non-U.S. Institutions Subtotal	69	44	25	82	151		
Total U.S. & Non-U.S.	141	87	54	125	266		
	a + b	(a)	(b)	(c)	a + b + c		

IceCube Ph.D. Authors Head Count

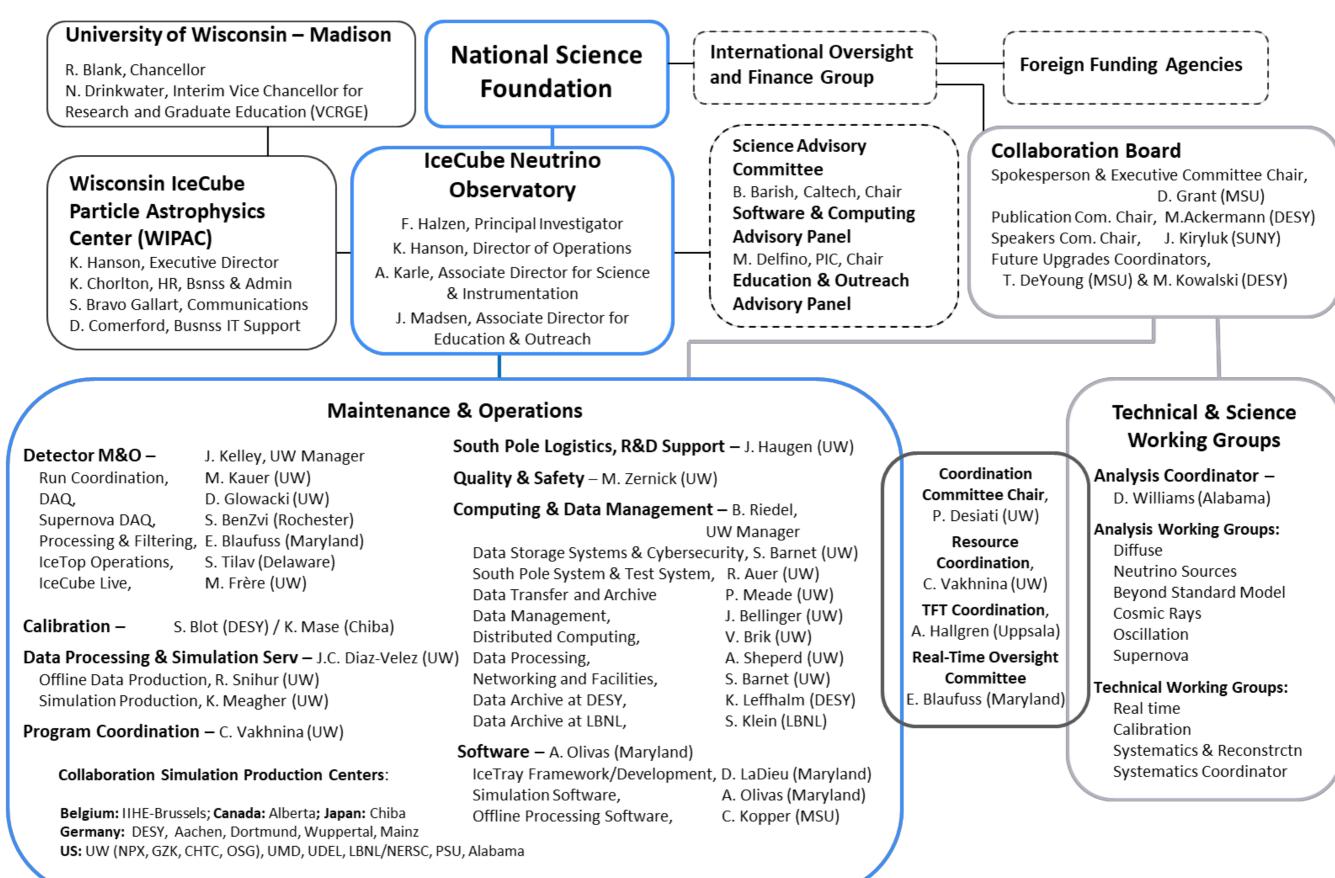


IceCube Collaboration - Ph.D. Authors Head Count

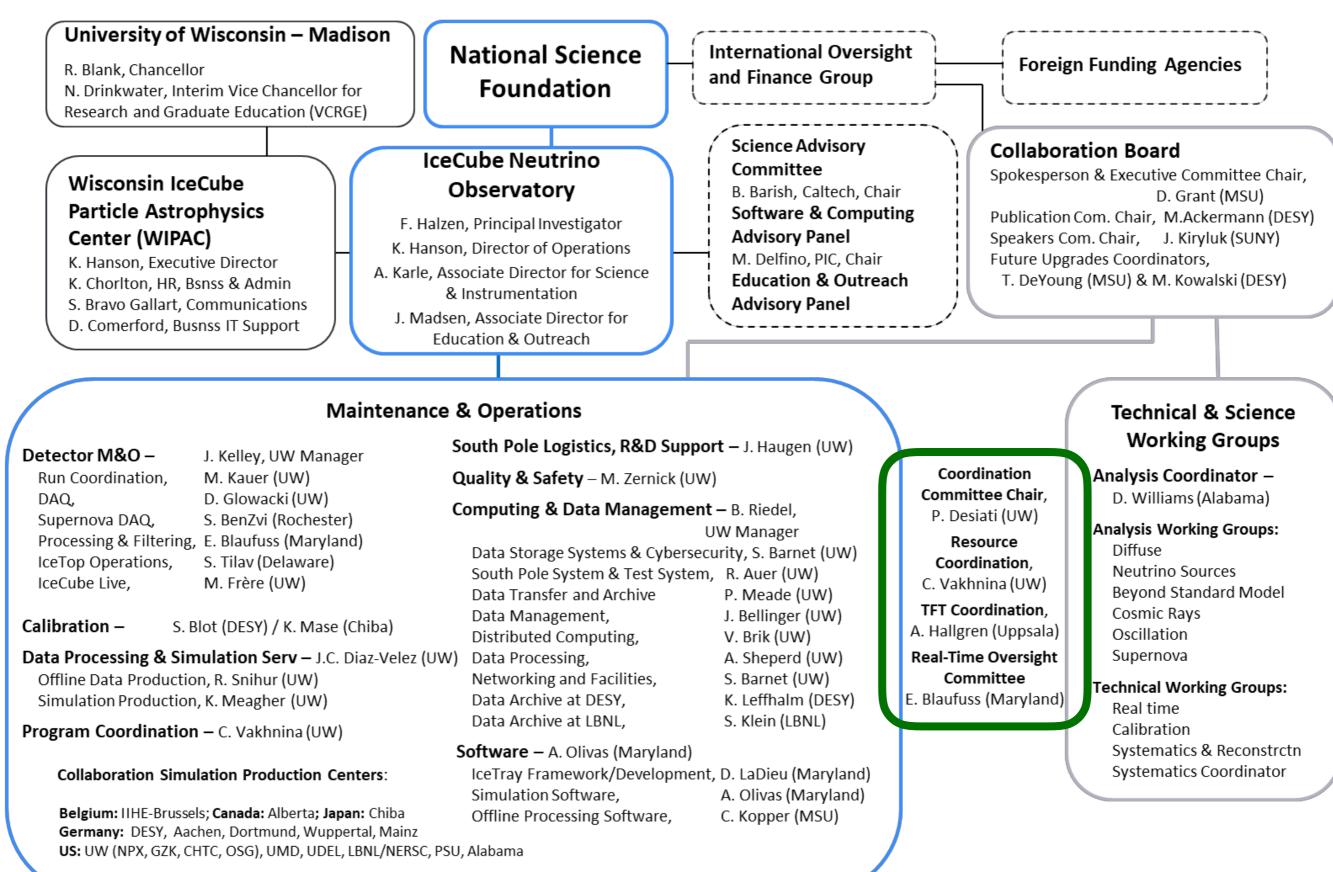
Non-US Common Fund

US Common Fund

Collaboration organization chart:



Collaboration organization chart:



Board Activities

On average approximately 30 items are discussed in depth (and often voted* on) each year:

- institutional and associate memberships
- policy development and updates
- memoranda of understanding (MOUs) with other projects
- amendments to the collaboration governance

*Voting on items takes place confidentially via GoogleForms

Collaboration membership:

- institutional membership may be considered for any group via application to the board (received by the spokesperson)
- associate membership (typically for a dedicated analysis or hardware topic) occurs via application sponsored by an IceCube member institution.
- typically for new institutions in a country with existing members guidance is sought on the impact to the on-going funding and activities; for new countries (eg. China in 2018) broader guidance is solicited from lead project agencies.

7 applications; 3 full member; 3 associate member; 1 institutional update

Policy development and updates:

- implemented new policies for code of conduct, ombudsperson and formal complaints
- updated publication policies, including handling of corresponding authorship

MOUs with partner projects:

- implemented a standardized template for MOU agreements to streamline the process
- agreements generally have 3 year periods, renewable
- MOUs have been used extensively both for the TXS analyses/ publications and the recent M77 results.

6 new and updated MOUs in the past year. General MOU signed with ANTARES to ease joint analyses. Upcoming in 2019 is re-negotiation of agreements with LIGO/Virgo.

Governance amendments:

 introduced a "dormant institute" clause to accommodate the natural life-cycle of a mature collaboration Further future collaboration meetings

Spring 2018 - Madison WI USA

Fall 2019 - Chiba Japan

Spring 2020 - Brussels Belgium

Fall 2020 - Location X, North America

Spring 2021 - Aachen Germany