Twelfth IVS TOW (TOW2023) Summary of participants' evaluation Compiled by D. Behrend

Multiple "x"s indicate the number of people making the same comment.

Classes

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Best: xxxx Science Overview

- xxx VLBI Session Pre-checks and IVS Operations
- xxx Operational Recovery from System Failures
- xx Pointing and Amplitude Calibration Concepts
- xx Discussion Board
- xx FS Station Code
- xx VLBI Data Acquisition, Formats, Transfer and Tools
- x Operational Use of Mark 6
- x Setup and Operations of the DBBC3
- x Understanding Correlator Feedback
- x Antenna Gain Calibration
- x RFI Determination and Spectrum Management
- x Time and Frequency in VLBI
- x VLBI Basics
- x Impact of Operations on Data Analysis
- x PolConvert for Station Operators
- x Lectures

Least: x Antenna Gain Calibration

- x Phase Cal Basics
- x Pointing and Amplitude Calibration Concepts
- x Operational Data Transport in the IVS
- x BRAND and DBBC4

(xxxx All were worthwhile)

2. Arrangements

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	++	+	0	-	
Web registration	13	5	1	•	
Hotel	8	5	5	•	
Food	10	8	1	•	
Transportation	8	5	•	•	
Class content	9	9	1	•	
Class assignment	9	6	3	•	
0ther	3	•		1	(overall; weather)

3. Overall

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Liked best: xxxxx xxxx face-to-face, getting to know people, share knowledge

- xx contacts for help and collaboration opportunities
- xx interactions with people from different parts of IVS
- xx hallway discussions
- xx social interactions
- xx organization
- x meeting new staff
- x getting a general overview of VLBI
- x classes about timing, RFI, pre-checks, cryo system
- x learning about future of VLBI (VGOS)
- x location

Liked least: xx air conditioning in class rooms

- x lower part of screen not visible from back in Conf_A
- x uncomfortable chairs
- x provide class descriptions for class sign-up
- x more hands-on and practical tasks, too theoretical
- x focus a bit more on VGOS
- x limited time to talk to people in breaks
- x fatigue level after 3 pm
- x missing bar at meeting hotel

Wanted but was not offered in a class:

- more involvement of geodetic analysts (to show that VGOS works)
- more hands-on classes or interactive sessions
- group work for solving real-world problems and doing installations
- a dedicated maser class, more in-depth timing
- lecture on imaging, since source structure limits VGOS until fixed
- introduction to radio astronomical instrumentation

Improvements for TOW2025:

- spread classes over more days (allowing for shorter days)
- maybe organize a discussion-board type session about RFI (or other topics)
- have discussion about common issues for the stations
- general class about VLBI basics
- more practical, remote connections to stations
- more in-depth class about masers (e.g., invite Brian Owings of Microsemi (SigmaTau))
- establish an offline video archive
- consider hotel with walking distance food options such as the Residence Inn Westford
- different hotel/location with bar for social interactions
- make deal with hotel in advance for Govt per-diem rates
- visit a Red Sox game at Fenway Park
- organize an excursion
- keep it like this

Other comments:

- It was helpful to have food available all day.
- Thanks for organizing! And for the food!
- Hotel was excellent. But nearby nightlife (i.e., bar, restaurants, theater, movies) would be nice.
- A hotel in Lowell or Chelmsford has more options nearby. The Groton Inn does not have a good accessible bar to reconvene at end of day.
- It would be beneficial to encourage the creation of an equipment failure tracker, that operators could update as they see/resolve problems. Such a tracker would give station/project managers an idea of upcoming parts/replacement needs, so that they can budget that in over time, instead of having a surprise \$30k bill. We as operators/engineers need to be mindful that we don't mask the problems. It is true that the squeaky wheel gets the grease. But if the project/station manager isn't aware of a problem, they cannot help. This tracker would provide station or project-level feedback that would be useful in budgeting, reduce downtime and missed operations, and avoid nasty surprise costs.
- Thanks to Heidi and Dirk. I'll be coming back to the next TOW!
- Thank you for everything. We were well taken care of this week.
- Many thanks for supporting.
- Great to meet again.