

# DASP 2024 Business Meeting

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23 February 2024



1.	Approval of the agenda		
2.	Review of Action Items	David Themens	(10 min)
3.	Website Overview and Feedback	David Themens	(10 min)
4.	DASP Mailing List Transition	Dan Billett	(10 min)
5.	Membership status, financial status, and division fees	Megan Gillies	(10 min)
6.	Student Competition in Review	Megan Gillies	(10 min)
7.	Reports by national representatives SCOSTEP COSPAR CAP-NSERC liaison committee International Union for Pure and Applied Physics URSI IAGA/IUGG GEM STSAC	William Ward N/A Richard Marchand N/A David Themens David Themens John Manuel (Deferred to Townhall)	(25 min)
8.	DASP Student Workshop in Review	Jennifer Peterson	(10 min)
9.	DASP 2025 workshop venue; 2026?	David Themens	(10 min)
10.	Solicitation of Interest for the ERC Representative	David Themens	(5 min)
11.	Any other business		
12.	Adjournment		

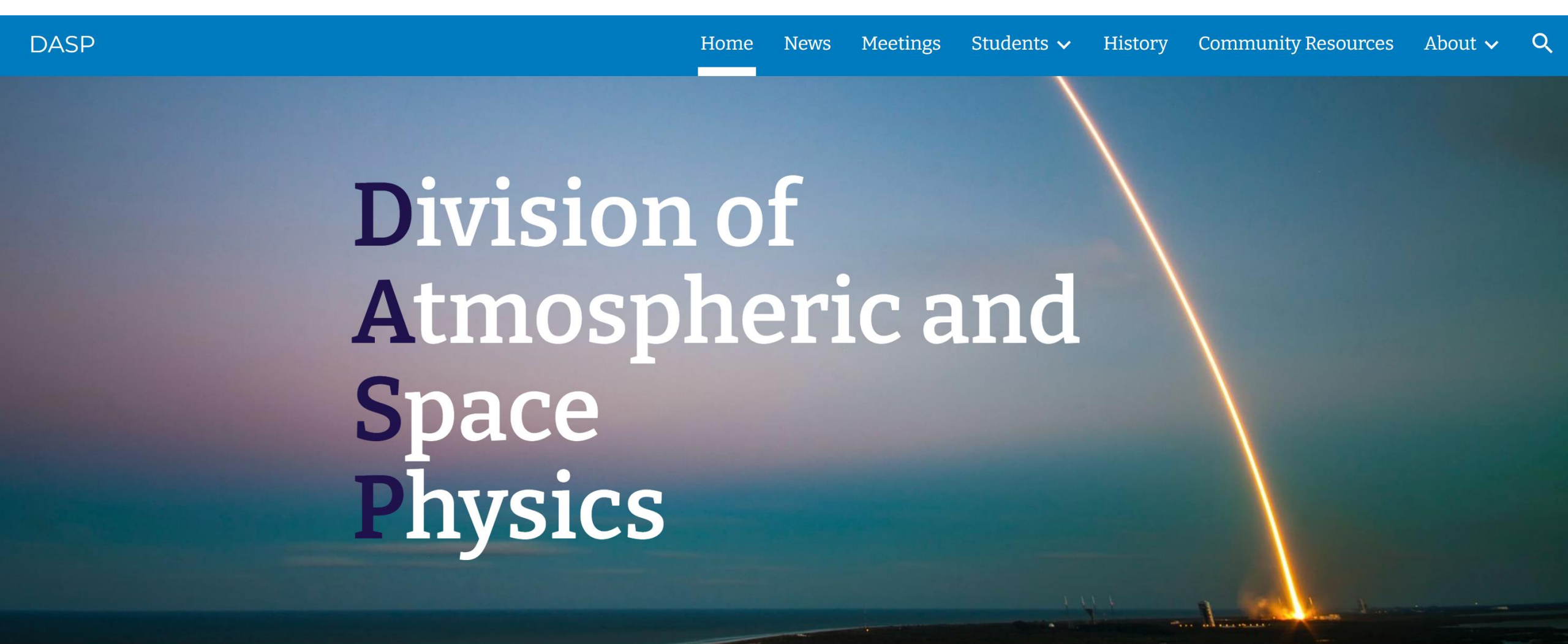
## 2. Review Action Items

#	ACTION	Who	Comments
1	Action Item: David Themens will contact CAP and discuss the regulation on student prize values.	DASP Executive	The matter of increasing the prize amounts was brought to the CAP Annual meeting in June. CAP agreed to discuss the matter at a later time; however, no action has been taken since, as far as I am aware.
2	Action item: consider having students automatically enrolled in the next DASP	DASP Executive	We decided not to move forward with this measure for now and have instead implemented more transparency for the competition process by making the grading scheme available and streamlining assessment.
3	Action item: publish the grading rubric in advance of Workshop to better prepare the students.	DASP Executive	Completed. We have also made the grading process fully digital to make compiling the results much more straightforward.
4	Action: Create Website	DASP Executive	Complete. I have also asked Andrew Yau to lead the creation of a DASP history page for the website. Please get in touch with Andrew if you'd like to be involved.

5	Action item: Begin the process to put forth a person to join the STSAC early career person. David Themens will draft and send an email after the conference to outline the process.	DASP Executive	A call was made to the community for expressions of interest in DASP nomination to the CSA for open STSAC positions. DASP put forward Reihaneh Ghaffari and Daniel Billett as nominees for an Early Career position on the STSAC. Two nominees: Andrew Yau and Robert Rankin were put forward for the remaining STSAC opening. There has not yet been a decision by the CSA on who has been selected to join the committee.
6	Action item: David will send email with a link to the roadmap, look what's there and provide feedback regarding any changes.	DASP Executive	An STSAC Community workshop has been included in the DASP schedule to get community engagement with the Roadmap.
7	Action: DASP to send request UofA to host DASP 2024. If it is not possible then UCalgary has volunteered to host.	DASP Executive	UoA has hosted DASP 2024. DASP 2025 will be held with CAP in Saskatoon in June, 2025.

# Website: [dasp.ca](http://dasp.ca)

- Thanks to Andrew Howarth for setting up a website structure for DASP and setting up domain forwarding to [dasp.ca](http://dasp.ca)
- Thanks to UoC for allowing us to use the [dasp.ca](http://dasp.ca) domain.




# Division of Atmospheric and Space Physics

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## Welcome to DASP

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 The Division of Atmospheric and Space Physics (DASP) is a division of the [Canadian Association of Physicists](#). DASP acts as the focal point for the Canadian space environment community with members spanning research domains from the Sun, Solar Wind,

# Contributions Needed

- **Submissions for the “Community Resources” page.**
- **History page:** Andrew Yau has been asked to lead the creation of a proper history page for the community. He will likely need support in doing so, so please reach out to Andrew if you’d like to contribute to the effort.
- **Meetings:** If there is a relevant meeting, please let us know and we’ll include it on the website.
- **News:** If you have a relevant news item that you’d like shared on the website, please send it to the DASP [dasp.dpae@gmail.com](mailto:dasp.dpae@gmail.com) email or submit the form on the website.

# New DASP mailing list

- For DASP-related and community announcements
  - DASP business/executive announcements
  - Upcoming meetings/sessions
  - Job postings/AO's
  - Soon: Community highlights
- Replaces previous unofficial mailing list via Gmail - difficult to maintain
- Dethatched from CAP systems – larger community reach for non-CAP members.

<https://smtp.phys.ucalgary.ca/cgi-bin/mailman/listinfo/dasp-l>



## Subscribing to DASP-l

Subscribe to DASP-l by filling out the following form. You will be sent email requesting confirmation, to prevent others from gratuitously subscribing you. Once confirmed, you will be added to the list. You will be notified of the moderator's decision by email. This is also a hidden list, which means that the list of members is available only to the list moderator.

Your email address:

Your name (optional):

You may enter a privacy password below. This provides only mild security, but should prevent others from messing with your subscription. **Do not use a valuable password** as it will occasionally be emailed back to you in cleartext.

If you choose not to enter a password, one will be automatically generated for you, and it will be sent to you once you've confirmed your subscription. You can always request a mail-back of your password when you edit your personal options.

Pick a password:

Reenter password to confirm:

Which language do you prefer to display your messages?  English (USA)

Would you like to receive list mail batched in a daily digest?  No  Yes



# Financial update

## 2022-2024 DIVISIONAL INCOME/EXPENSE SUMMARY - DASP

2022 finances to year-end, Dec.31/22 (SUBJECT TO AUDIT)						
150 - DASP	2021 year-end balance (after audit)	2022 def.rev at Dec.31/21 (in Income total)	INCOME	EXPENSES	DESCRIPTION (see separate summary provided for details)	2022 Year-end balance (before audit)
150 - DASP	\$5,156.21	\$110.00			2022 opening balance	\$5,266.21
			\$340.00		2022 membership income rec'd in 2022	
				(\$100.00)	Sneha Babu; 2nd Oral, 2022	
				(\$50.00)	Kyle Reiter; 3rd Oral, 2022	
TOTALS	\$5,156.21	\$110.00	\$340.00	(\$150.00)		
<b>2022 year-end balance</b>						<b>\$5,456.21</b>

**2023 finances to Aug 31 (SUBJECT TO VERIFICATION)**

150 - DASP	2022 year-end balance (tbc)	2023 def.rev at Dec.31/22	INCOME	EXPENSES	DESCRIPTION (see separate summary provided for details)	2023 current balance
150 - DASP	\$5,456.21	\$110.00			<b>2023 opening balance</b>	<b>\$5,566.21</b>
			\$300.00		2023 membership income rec'd in 2023	
				(\$200.00)	Hannah Parry; 1st Oral, 2022 (not paid in 2022)-A/P	
				(\$200.00)	Sneha Susan Babu, 1st Oral, 2023	
				(\$100.00)	Vadym Bidula, 2nd Oral, 2023	
				(\$50.00)	Pouya Pourkarim, 3rd Oral, 2023	
TOTALS	\$5,456.21	\$110.00	\$300.00	(\$550.00)		
<b>current 2023 balance</b>						<b>\$5,316.21</b>

**2024 finances to Feb 21, 2024 (SUBJECT TO VERIFICATION)**

150 - DASP	2023 year-end balance (tbc)	2024 def.rev at Jan.30/24	INCOME	EXPENSES	DESCRIPTION (see separate summary provided for details)	2023 current balance
150 - DASP	\$5,316.21	\$140.00			<b>2023 opening balance</b>	<b>\$5,456.21</b>
			\$270.00		2024 membership income rec'd in 2024	
TOTALS	\$5,316.21	\$140.00	\$270.00	\$0.00		
<b>current 2024 balance</b>						<b>\$5,726.21</b>

# Student Competition 2024 winners:

1<sup>st</sup> : Jari Swanson

2<sup>nd</sup> : Erik Halliwell

3<sup>rd</sup> : Cassandra Mckenna

## Changes to the student competition for DASP 2024:

- Increased transparency with judging rubric available for students prior to DASP workshop
- Implemented online evaluation which will allow for easier distribution of judges comments for student who wish to see their evaluations.

# 7. Reports by national representatives

SCOSTEP (William Ward)

COSPAR

CAP-NSERC liaison committee (Martin Connors)

International Union for Pure and Applied Physics

URSI (David Themens)

IAGA/IUGG (David Themens)

GEM (John Manuel)

STSAC

SCOSTEP  
William Ward

# SCOSTEP Activities - 2023

- National:
  - Payment: 2023 Category IV SCOSTEP Subscription (\$5K US).
  - **The 2023 Annual Performance Review for NRC due March 15, 2024.**
- International:
  - Website for SCOSTEP: <https://scostep.org/>
  - SCOSTEP program, Predictability of the Solar-Terrestrial Coupling (PRESTO) is in its fourth year: <https://scostep.org/presto/>
  - Online advanced lectures and capacity building lectures available.
  - Visiting scholar program
  - Dedicated Listserv: scostep-all@listserv.bc.edu, over 2300 members.
  - SCOSTEP is a permanent observer of the United Nations Committee on the Peaceful Uses of Outer Space (UN-COPUOS)
  - Upcoming 9<sup>th</sup> Workshop on Vertical Coupling in the Atmosphere-Ionosphere System and the 6<sup>th</sup> ANtarctic Gravity Wave Instrument Network – June 2-7, 2024, Fredericton, NB. <https://vcais2024.ca/>

# SCOSTEP Activities - 2023

- International: Elections for new executive officers were held in July in Berlin at the General Council Meeting.

## SCOSTEP Executive Officers



President  
Kazuo Shiokawa



Vice-President  
Bernd Funke



Scientific Secretary (ex officio)  
Keith Groves

**Scientific Discipline Representatives:** An international group of scientists providing advice to SCOSTEP about scientific programs and serves as links between national and regional activities in their fields and SCOSTEP international scientific programs. Their collective expertise will cover the range of sub-disciplines in solar-terrestrial physics, with as much provision for adequate geographic distribution as is possible.

## PRESTO Science Program



The Sun is a variable star and its variability influences the Earth's space environment. Furthermore, changing solar magnetic fields, radiative and energetic particle fluxes force the Earth's atmosphere and climate. Transient energetic events such as flares, coronal mass ejections (CMEs), interplanetary shocks, stream interaction regions (SIRs), corotating interaction regions (CIRs) and energetic particles adversely impact critical technologies based in space and on Earth that our society is increasingly dependent upon.

At the same time, the middle and upper atmosphere/ionosphere are impacted by processes originating at lower altitudes, e.g., by atmospheric gravity waves, tides and planetary waves and changes in radiatively active gases.

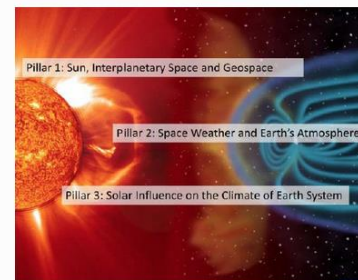
Solar influence on climate is gaining increasing attention since variations in solar activity do not only impact middle atmosphere chemistry and physics, but have been shown to impact decadal variability at the Earth's surface. This is particularly interesting and important for decadal climate predictions.

With the enhanced understanding of causal connections in the Sun-Earth system maturing over the last several decades, fueled by both observations and theoretical modelling, we are in the position to transform this understanding to improved predictions of the Sun-Earth coupled system, which is of relevance to the society and is the focus of the current PRESTO program.

PRESTO is comprised of 3 pillars:

- **Pillar 1: Sun, Interplanetary Space and Geospace**
- **Pillar 2: Space Weather and the Earth's Atmosphere**
- **Pillar 3: Solar Activity and Its Influence on the Climate of the Earth System.**

The PRESTO Science Program is featured in the [SCOSTEP/PRESTO Newsletter Volume 22](#)



[PRESTO Leaflet](#)

[PRESTO Science Program](#)

[PRESTO Pillar 1](#)

[PRESTO Pillar 2](#)

[PRESTO Pillar 3](#)

[Grant Proposals for Databases, Campaigns, and Meetings](#)

[Online Seminar Series](#)

[Meetings](#)

[PRESTO Presentations](#)

[PRESTO Database List](#)



# Opportunities

- Funding to support the establishment of databases (April 31, 2024?, \$5000).
- Funding to support campaigns and meetings (late 2023, \$5000).
- Capacity building:
  - International Space Science School and Workshops.
  - International symposia.
  - Visiting scholar program
- SCOSTEP Awards:
  - Distinguished Science Award.
  - Distinguished Young Scientist Award.
  - Distinguished Service Award
  - Honorary Members

# NewsLetter

- Opportunity to publish short articles on research associated with a project or group.
- Opportunities for young researchers to publish on their research.
- Meeting announcements.



The newsletter cover features a blue header with the SCOSTEP logo and a small globe icon. Below the header, a large image shows a portion of the Earth and a bright orange sun. The title "SCOSTEP/PRESTO NEWSLETTER" is prominently displayed in white, bold letters, with "Vol. 34, January 2023" underneath. The main content area is divided into two columns. The left column contains a table of contents under the heading "Inside this issue". The right column features the first article, "Interoperable Database for Citizen Science Observations of STEVE", by Michael Hunnekuhl, with a small portrait of the author. Below the article text is a photograph of a STEVE aurora.

**SCOSTEP**  
Scientific Committee on Solar Terrestrial Environment

**SCOSTEP/PRESTO NEWSLETTER**  
Vol. 34, January 2023


**Inside this issue**

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**Article 1:**  
**Interoperable Database for Citizen Science Observations of STEVE**

  
Michael Hunnekuhl<sup>1</sup>  
<sup>1</sup>Independent Scientist, Germany

**S**TEVE (Strong Thermal Emission Velocity Enhancement) is a subauroral aurora-like phenomenon that is related to untypical high temperatures and ion drift velocities in SAID (Subauroral Ion Drift). Citizen Scientists recognized the peculiarity of this phenomenon and brought it to the attention of the scientific community. Figures 1 and 2 show photographs from two STEVE observations in Canada. MacDonald et al. [1] reported for the first time on the connect-





**ANGWIN**

ANTarctic Gravity Wave Instrument Network



## Joint Meeting

**9th IAGA/ ICMA/ SCOSTEP Workshop  
on Vertical Coupling in the  
Atmosphere-Ionosphere System  
6th ANGWIN Meeting**

**Where? Fredericton, Canada**

**When? 2 - 7 June 2024**

<https://vcais2024.ca/>



# Report of the DASP-NSERC liaison rapporteur

R. Marchand

2024 DASP workshop  
University of Alberta, Edmonton

# Data management

- There were concerns regarding data management plans, especially for large collaborations.
- There were questions on whether universities will provide adequate data repositories.
- Comments were also made that some universities have very inadequate data management strategies.

# Security

- Questions were asked about whether students from countries posing security risks, as identified by the federal government, should be excluded from certain projects.
- There were also concerns about large international collaborations, where participants come from many different countries and may collaborate with other researchers in different countries.
- It was also mentioned that researchers don't necessarily have the expertise to judge if a certain topic is a security risk or not.

# Student income

- Should NSERC set a minimum income for all students?
- One suggestion would be to have all graduate students receive a stipend from the Federal Government like what is done in some European countries (this was suggested at an earlier LC meeting).
- This would free up research funds away from HQP and to actual research.
- What is the policy for students on University approved leaves (sic, compassionate, ...)?  
NSERC pays maternity and parental leaves directly, but not sick leaves.

## Bin J (SSS)

- SSS in: Scientific or engineering excellence of the researcher; Merit of the proposal; Contributions to the training of highly qualified personnel (HQP).
- There was concern about the fact that these applications would no longer be funded, and that applications would not receive comments to improve their applications.
- NSERC will provide feedback to applicants whose proposal is in bin J.
- NSERC will provide the LC and Department leaders with stats on the effect of bin J broken down by gender and institution size.



# Open access publications

- NSERC requires publications to be open access. There were concerns about the costs. Some journals don't allow preprints to be posted on arXiv or Research Gate.
- Consider the “Canadian Research Knowledge Network”. They negotiate fees with publishers and Universities to make open access free for authors.
- When publishing with one of the Journals with which the CRKN has an agreement, authors must get approval from their university.
- There should be a revision of the Open Access (OA) policy on July 4th and a survey was sent out for feedback.
- There will be an outcomes report (“What we heard”) from the survey by spring 2024.
- In the fall 2024, there will be a new draft policy available for feedback. The new policy should take effect in 2025.

# AMO (Atomic, Molecular Optics)

- The AMO community wished to be evaluated in their own committee rather than in General Physics.
- Arguments were presented for not going ahead with this suggestion.
- NSERC will be adopting the new Canadian Research and Development Classification (CRDC), available on the web.
- Once the new Trig-Agency Grant Management System (TGMS) is in place. NSERC will keep the Liaison Committee (LC) updated on progress.
- Nothing done to update the LC so far.



URSI National Committee  
David Themens

- URSI General Assembly took place in Sapporo, Japan, in August.
- The Atlantic Radio Science Meeting (URSI AT-RASC) will be held in Gran Canaria in May.
- Abstract submission closed Feb 1<sup>st</sup>.
- Young Scientist Award and student paper competition will be conducted.
- I have been appointed Early Career Representative for Commission G.
- New Working Group formed on Data Assimilation



IAGA National Committee  
David Themens

- IUGG was held in Berlin in July, 2023.
- Abstract submission closed Feb 20<sup>th</sup>.
- Joint IAGA - IASPEI Assembly will be held in Lisbon, Portugal, in 2025.
- Geospace Data Assimilation Working Group (GeoDAWG) will be holding their first in-person meeting in the two days following the assembly.  
<https://sites.google.com/view/geodawg/home>
- If you have highlights from 2023, please send them along!



GEM  
John Manuel



# DASP Student Workshop

## Participants:

- 12 Undergraduate Students
- 14 Graduate Students
- 2 Early Career Professionals and Researchers
- 12 Presenters and Volunteers

Note: We had 7 Early Career Professions/Researchers from the DASP Community who registered and did not attend



# Student Day Workshop Changes in 2024

1. Invited local undergraduate students for just the student day
  - Physics, engineering, and computer science
  - Cost recovery workshop fees
2. We had two portions:
  - Morning Talks
  - Afternoon Coding Workshops

# Thank you to our Presenters



## Morning Talks:

- Space Physics Introduction - Daniel Billett
- Magnetometer Introduction - David Milling
- TREx and ASI Introduction - Emma Spanswick
- SuperDARN Introduction - Kathryn McWilliams

## Afternoon Coding Workshops: [https://github.com/kylermurphy/DASP\\_2024](https://github.com/kylermurphy/DASP_2024)

- GMAG session - Kyle Murphy
- Aurora-asi-lib - Mike Shumko
- UofC ASI crib sheets - Josh Houghton, Eric Donovan, Darren Chaddock, and Emma Spanswick

## 9. DASP Workshop Venue

- 2025: DASP will be held with CAP in Saskatoon in May/June 2025.
- 2026: Location TBD?
- CSA has expressed the possibility of hosting DASP once every 3-4 years. Should the community consider hosting DASP at the CSA regularly?

# 10. Early Career Representative to DASP

- The DASP Exec is looking for a person interested in acting as DASP Early Career/Student Representative.
- Acts as the DASP Exec liaison to the DASP Student Workshop LOC.
- Represents student/early career interests in DASP decision making.
- If you are interested, please send an email to [dasp.dpae@gmail.com](mailto:dasp.dpae@gmail.com) outlining your interest.

11. Any other business?

# ACTIONS:

ACTION:

- [solar-terrestrial-sciences@lyris.asc-csa.gc.ca](mailto:solar-terrestrial-sciences@lyris.asc-csa.gc.ca)
- [atmospheric-sciences@lyris.asc-csa.gc.ca](mailto:atmospheric-sciences@lyris.asc-csa.gc.ca)

To post, send an email to [solar-terrestrial-sciences@lyris.asc-csa.gc.ca](mailto:solar-terrestrial-sciences@lyris.asc-csa.gc.ca).

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To join, send an email to [join-go@lyris.asc-csa.gc.ca](mailto:join-go@lyris.asc-csa.gc.ca) and respond to the automated confirmation email.