



GEM 30

Virtual Summer Workshop on July 25 - 30, 2021

What's New at GEM



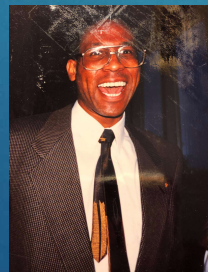
Geospace Environment Modeling

New GEM initiatives to build a stronger community:

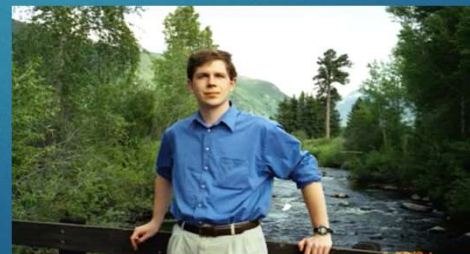
- ❖ **Inaugurated a Mentor/Mentee program**
 - more than 30 mentors and 23 mentees
- ❖ **Established the Sam Bingham Community Care Initiative**
 - tutorial on team dynamics, mental health awareness, social hour
- ❖ **Initiated GEMstone "In Memoriam" section**
 - Slack Workspace: GEM workshop "support-each-other" channel



Sam Bingham (1988-2020)



Fred Hall (1968-2020)



Stan Sazykin (1972-2021)



Richard Thorne (1942-2019)



Steering Committee (SC) Voting Members



Vania Jordanova
(Chair)



Adam Kellerman
(Chair-Elect)



Allison Jaynes
(At-Large Member)



Ian Cohen
(At-Large Member)



Lynn Kistler
(At-Large Member)



Yihua Zheng
(At-Large Member)



Chris Mouikis
(Meeting Organizer)



Seth Claudepierre
(RAC-IMAG)



Hyunju Connor
(RAC-MIC)



Matina Gkioulidou
(RAC-MPS)



Alex Glocer
(RAC-GSM)



Raluca Ilie
(RAC-IMAG)



John Lyon
(RAC-GSM)



Chia-Lin Huang
(Meeting Organizer)



Shin Ohtani
(RAC-MIC)



Steve Petrinec
(RAC-SWMI)



Brian Walsh
(RAC-SWMI)



Chih-Ping Wang
(RAC-MPS)



Agnit
Mukhopadhyay
(Student Rep)



Mei-Yun Lin
(Student Rep)

- We will be looking for 3 new RACs to replace Matina, Seth & Shin!
- Many thanks for the outstanding service to the GEM community!

Active GEM Focus Groups (11 with 3 FG ending)

- ❑ Merged Modeling & Measurement of Injection Ionospheric Plasma into the Magnetosphere (M^3I^2) and Its Effects - Plasma Sheet, Ring Current, Substorm Dynamics (2016 - 2021; Shasha Zou, Barbara Giles, and Rick Chappell; RA: Primary – MIC, Secondary – None)
- ❑ ULF wave Modeling, Effects, and Applications (2016 - 2021; Michael Hartinger, Kazue Takahashi, Alexander Drozdov, Maria Usanova, Brian Kress, and Xueling Shi; RA: Primary – GSM, Secondary – None)
- ❑ Dayside Kinetic Processes in Global Solar Wind-Magnetosphere Interaction (2016 - 2021; Heli Hietala, Xochitl Blanco-Cano, Gabor Toth, Andrew Dimmock, and Ying Zou; RA: Primary – SWMI, Secondary – GSM)
- ❑ Magnetotail Dipolarization and Its Effects on the Inner Magnetosphere (2017 - 2023; Christine Gabrielse, Matina Gkioulidou, Slava Merkin, Drew Turner, and David Malaspina; RA: Primary – MPS, Secondary – IMAG)
- ❑ 3D Ionospheric Electrodynamics and Its Impact on the Magnetosphere-Ionosphere-Thermosphere Coupled System (IEMIT) (2017 - 2022; Hyunju Connor, Dogacan Ozturk, Gang Lu, and Bin Zhang; RA: Primary – MIC, Secondary – GSM)
- ❑ Magnetic Reconnection in the Age of the Heliophysics System Observatory (2018 - 2024; Rick Wilder, Shan Wang, Michael Shay, and Anton Artemyev; RA: Primary – GSM, Secondary – None)
- ❑ Interhemispheric Approaches to Understand M-I Coupling (IHMIC) (2018 - 2023; Hyomin Kim, Robert Lysak, and Tomoko Matsuo; RA: Primary – MIC, Secondary – IMAG)
- ❑ System Understanding of Radiation Belt Particle Dynamics through Multi-spacecraft and Ground-based Observations and Modeling (2019 - 2024; Hong Zhao, Lauren Blum, Sasha Ukhorskiy, and Xiangrong Fu; RA: Primary – IMAG, Secondary – None)
- ❑ Particle Heating and Thermalization in Collisionless Shocks in the MMS Era (2019 - 2024; Lynn Wilson III, Li-Jen Chen, Katherine Goodrich, and Ivan Vasko; RA: Primary – SWMI, Secondary – None)
- ❑ The Impact of the Cold Plasma in Magnetospheric Physics (2020 - 2025; Gian Luca Delzanno, Natalia Buzulukosva, Barbara Giles, Roger Varney, and Joe Borovsky; RA: Primary – IMAG, Secondary – None)
- ❑ Self-Consistent Inner Magnetospheric Modeling (2020 - 2025; Cristian Ferradas, Chao Yue, Jacob Bortnik, Qianli Ma; RA: Primary – IMAG, Secondary – MIC)

There will be a call for new Focus Groups in the fall!



NSF GEM Program Director



➤ Lisa Winter

Steering Committee Liaison Members (18)

Please see the reports in the GEMstone newsletter on the GEM wiki:

https://gem.epss.ucla.edu/mediawiki/index.php/GEMstone_Newsletter

- Shasha Zou (Liaison to CEDAR)
- Joe Borovsky (Liaison to SHINE)
- Masha Kuznetsova (Liaison to CCMC)
- Jesse Woodroffe (Liaison to NASA)
- Howard Singer (Liaison to NOAA)
- James McCollough (Liaison to AFRL)
- Josh Rigler (Liaison to USGS)
- Andrew Dimmock (Liaison to Europe)
- Laura Morales (Liaison to Argentina)
- Brian Fraser (Liaison to Australia)
- John Manuel (Liaison to Canada)
- Chi Wang (Liaison to China)
- Yoshizumi Miyoshi (Liaison to Japan)
- Jaejin Lee (Liaison to Korea)
- Xochitl Blanco-Cano (Liaison to Mexico)
- Lou Lee (Liaison to Taiwan)
- Thomas Elsdén (Liaison to MIST/UK)
- Lutz Rastaetter (Liaison for Metrics and Validation Resource Group)

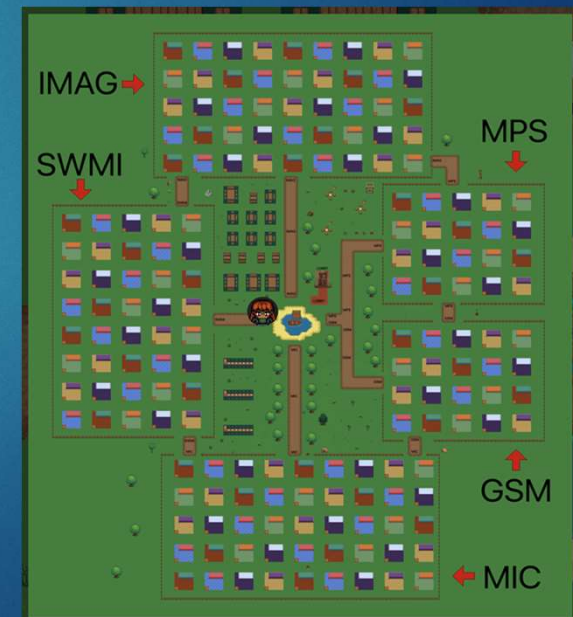


VGEM 2021 Information

- Total registered participants >500; total number of students >200
- 4 applications for family care grant (max 8; you can still apply!)
- 140 posters submitted

Many opportunities for communication during/after the workshop:

- ✓ VGEM 2021 virtual platform: vgem.org
- ✓ Posters and social activities: [Gather.Town](https://gather.town)
- ✓ Discussions via Slack Workspace: gemworkshop.slack.com



New GEM Logo Design Contest

- 17 logo designs were submitted; SC members selected the top 3 concepts
- Every GEMer will be able to vote from the new designs and the current logo
- You can find the voting Google form on our workshop website (gemworkshop.org)
- The winning design will be announced on Friday!

