

Agenda: 6th SWMF User Meeting

March 6th & 7th 2025, Ann Arbor, MI

Day 1 - March 6th, 2025

Block 1: Ongoing Large Projects – 9 am to 10:30 am (Chair: Dan Welling)

1	10 min	Dan Welling	Welcome & Logistics
2	20 min	Gabor Toth	SWMF History & Recent Developments
3	20 min	Lulu Zhao	CLEAR
4	20 min	Tuija Pulkkinen	SWORD
5	20 min	Tamas Gombosi	SCEPTER

Break

Block 2: SWMF in the Heliosphere – 11 am to 12:30 pm (Chair: Gabor Toth)

1	15 min	Chip Manchester	Small to MesoScales in CMEs
2	15 min	Tim Keebler	EEGGL
3	15 min	Alex Shane	SEP Model
4	15 min	Xianyu Liu	CME Eruption
5	15 min	Weihao Liu	SEP Model
6	15 min	Elizabeth Wraback	CME charge states

Lunch – SWMF Tutorial in Auditorium

Block 3: SWMF, Sun to Geospace – 1:30 pm to 3 pm (Chair:)

1	15 min	Nistha Sachdeva	SWQU/CME Efforts
2	15 min	Zheng Sun	Space Weather Around Slowly rotating, Fully Convective M-dwarfs
3	15 min	Matti Ala-Lahti	Impact of upstream IMF fluctuations on SW-Mag coupling
4	15 min	Dave Sibeck	Modeling for the LEXI, SMILE, and STORM Soft X-Ray Missions
5	15 min	Austin Brenner	Geospace energy calculations
6	15 min	Hongfan Chen	Machine Learning dB

Break

Block 4: Agencies & Discussion 3:30 pm to 5:00 pm (Chair:)

1	15 min	Michael Wiltberger	Coding at the Center for Geospace Storms
2	15 min	Bashi Ferdousi	AFRL: Space Weather Modeling & Requirements
3	15 min	Aaron Ridley	Perspectives from Aether Development - Students & Fac
4	15 min	Masha Kuznetsova	SWMF and other models at CCMC

Open Discussion: What Can We Learn From Other Groups & Future and Needs for SWMF Users

Reception: 5:30 - 7:00 pm

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Day 2 - March 7th, 2025

Block 1: Planetary Science with the SWMF – 9 am to 10:30 am (Chair:)

1	15 min	Xianzhe Jia	Mercury, Ganymede ...
2	15 min	Ofar Cohen	SWMF Beyond the Solar System
3	15 min	Yuxi Chen	Simulating Foreshocks with MHD-AEPIC: Numerical Methods and Applications
4	15 min	Wenyi Sun	Mars
5	15 min	Alex Cushen	Mercury AEPIC
6	15 min	Erika Hathaway	HEIDI at Outer Planets

Break

Block 2: SWMF in the Ionosphere/Thermosphere – 11 am to 12:30 pm (Chair:)

1	20 min	Shasha Zou	Bursty Bulk Flow dynamic evolution using MHD-PIC model
2	20 min	Dan Welling	Updated Conductance
3	15 min	Pauline Dredger	SWMF & GITM
4	20 min	Jianghuai Liu	HEIDI Updates
5	15 min	Ari Gottesman	Ionospheric Conductance: Current Status & Future

Lunch

Block 3: Methods, Developments, and More – 1:30 pm to 3 pm (Chair:)

1	15 min	Yifu An	GPUs
2	20 min	Darren DeZeeuw	3D Viz
3	20 min	Jack Topper	Runs-on-Request & SWMF
4	20 min	Shree Porunakatu Radhakrishna	Proton Precipitation using the SWMF & RAM-SCB
5	15 min	Talha Arshad	AMR-PIC

Break

Block 4: Open Discussion – 3:30 pm to 5:00 pm (Chair:)

1	~80 min		
Closing remarks and farewell			