

## Summary

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<b>Product Description</b>	
<b>DOE Award/Contract Number</b>	SC0022965
<b>Recipient/Contractor (Organization)</b>	College of William and Mary
<b>STI Product Type</b>	Conference
<b>Conference Type</b>	Conference Proceedings
<b>Intellectual Property/Distribution Limitations</b>	Unlimited

<b>Product Type Info</b>	
<b>STI Product Title</b>	MagNetUS 2022 Proceedings
<b>Conference Information</b>	MagNetUS 2022; Williamsburg, VA; June 7-8, 2023
<b>Publication/Issue Date</b>	06/07/2022

### Authors

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<b>* Indicates Primary Author</b>		

<b>Content</b>	
<b>Report/Product Number</b>	None
<b>Sponsoring DOE Program Office</b>	USDOE Office of Science (SC), Fusion Energy Sciences (FES)
<b>Description/Abstract</b>	<p>The 2022 MagNetUS meeting is open for anyone to participate either virtually or in-person. The in-person component will be held at The College of William &amp; Mary in Williamsburg, VA. The purpose of this meeting is (1) to spotlight exciting research in and adjacent to the MagNetUS community and (2) to foster and maintain collaborations in basic magnetized plasma research. Intended participants include anyone researching the basic science of magnetized plasmas. More specifically, this could include, but is not limited to, those using spacecraft data, simulationists, theoreticians, and those working with experiments ranging from collaborative research facilities (e.g. BaPSF, WPPPL, MPRL, and Frontier experiments on DIII-D) to single-PI college and university-scale labs. Members of the HED, LTP, and fusion plasma communities are encouraged to participate with an eye toward developing potentially collaborative projects for magnetized midscale facilities. Information about the meeting and MagNetUS in general can be found at <a href="http://MagNetUS.net">http://MagNetUS.net</a>.</p>

**Related Documents**

<b>Related Document Information</b>	<a href="https://sites.google.com/wisc.edu/magnetus2022/home">https://sites.google.com/wisc.edu/magnetus2022/home</a>
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**Contact Info**

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**Upload/Link**

<b>Medium</b>	Electronic Document
<b>Transmission Information</b>	Upload File STI Product is Being Transmitted Electronically via E-Link
<b>File Name</b>	C:\fakepath\MagNetUS 2022 - Scientific Program.pdf



# Scientific Program and Schedule

## Invited Talks

Rachel Young - *Scaled Interplanetary Coronal Mass Ejection Experiments on the Big Red Ball*

Will Fox - *Studying Magnetic Reconnection and Fast Magnetic Reorganization During the Sawtooth Crash*

Colin Adams - *Liquid first wall waves and spray in magnetically-confined fusion configurations*

Cristina Rea - *Data-driven fusion research for disruption prevention*

Lenaic Couedel - *Nanoparticle growth in highly magnetized chemically active plasmas*

Ranganathan Gopalakrishnan - *Development of thermodynamic equations of state for 2D dusty plasmas using Langevin Dynamics simulations and comparisons with experimentally observed grain trajectories for validation*

Carlos Cartagena-Sanchez - *Investigating the Dissipation Scale in Magnetic Turbulence*

Steph Kubala - *A Physics Basis for Confinement Scaling in Reversed-Field Pinch Plasmas*

Stephanie Diem - *The New Pegasus-III Experiment*

Seth Dorfman - *Investigations of non-linear Alfvén wave physics in the laboratory*

Derek Schaeffer - *Laboratory Studies of Laser-Driven, Ion-Scale Magnetospheres on the Large Plasma Device*

Katey Stevenson - *Field Direction Dependent Particle Heating in a Helicon Source*

## Discussion Session Topics:

*Opportunities to explore theory, simulation, and space*



*Lab measurements needed to open new frontiers*



Invited		Break		Meeting venue: Integrated Science Center (ISC), William and Mary													
Contributed		Business		Tuesday (6/7)				Wednesday (6/8)				Thursday (6/9)				Friday (6/10)	
UTC	ET	Day 1		UTC	ET	Day 2		UTC	ET	Day 3		UTC	ET	Day 4			
12:30	8:30 AM	Pastries/coffee		12:30	8:30 AM	Pastries/coffee		12:30	8:30 AM	Pastries/coffee		12:30	8:30 AM	Pastries/coffee			
13:00	9:00 AM	Welcome & announcements		13:00	9:00 AM	Welcome & announcements		13:00	9:00 AM	Welcome & announcements		13:00	9:00 AM	Welcome & announcements			
13:05	9:05 AM			13:05	9:05 AM			13:05	9:05 AM			13:05	9:05 AM				
13:10	9:10 AM	MagNetUS: Purpose and bylaws		13:10	9:10 AM	Nanoparticle growth in highly magnetized chemically active plasmas		13:10	9:10 AM	The New Pegasus-III Experiment		13:10	9:10 AM	WIPPL user meeting			
13:15	9:15 AM			13:15	9:15 AM	Lenaic Couedel (remote)		13:15	9:15 AM	Stephanie Diem		13:15	9:15 AM				
13:20	9:20 AM			13:20	9:20 AM			13:20	9:20 AM			13:20	9:20 AM				
13:25	9:25 AM			13:25	9:25 AM			13:25	9:25 AM			13:25	9:25 AM				
13:30	9:30 AM	Brief introduction of collaborative facilities.		13:30	9:30 AM			13:30	9:30 AM			13:30	9:30 AM				
13:35	9:35 AM	-MPRL (5 min)		13:35	9:35 AM			13:35	9:35 AM			13:35	9:35 AM				
13:40	9:40 AM	-WIPPL (5 min)		13:40	9:40 AM	Development of thermodynamic equations of state for 2D dusty plasmas using Langevin Dynamics simulations and comparisons with experimentally observed grain trajectories for validation		13:40	9:40 AM	Investigations of non-linear Alfvén wave physics in the laboratory		13:40	9:40 AM				
13:45	9:45 AM	-PHASMA (5 min)		13:45	9:45 AM			13:45	9:45 AM	Seth Dorfman		13:45	9:45 AM				
13:50	9:50 AM	-BAPSF (5 min)		13:50	9:50 AM			13:50	9:50 AM			13:50	9:50 AM	DIII-D user meeting			
13:55	9:55 AM	-NRL (5 min)		13:55	9:55 AM	Ranganathan Gopalakrishnan (remote)		13:55	9:55 AM			13:55	9:55 AM				
14:00	10:00 AM	Each 5 minute presentation will be given by a representative from the respective facility.		14:00	10:00 AM			14:00	10:00 AM			14:00	10:00 AM				
14:05	10:05 AM			14:05	10:05 AM			14:05	10:05 AM			14:05	10:05 AM				
14:10	10:10 AM	Coffee		14:10	10:10 AM	Using dusty plasmas to probe pattern formation at high magnetic fields in the Magnetized Dusty Plasma Experiment (MDPX) device - Edward Thomas		14:10	10:10 AM	Laboratory Studies of Laser-Driven, Ion-Scale Magnetospheres on the Large Plasma Device		14:10	10:10 AM				
14:15	10:15 AM			14:15	10:15 AM			14:15	10:15 AM	Derek Schaeffer		14:15	10:15 AM				
14:20	10:20 AM			14:20	10:20 AM			14:20	10:20 AM			14:20	10:20 AM				
14:25	10:25 AM			14:25	10:25 AM	Resonant Drag Instabilities in Astrophysical and Laboratory Dusty Plasmas		14:25	10:25 AM			14:25	10:25 AM				
14:30	10:30 AM			14:30	10:30 AM	Ben Israeli		14:30	10:30 AM			14:30	10:30 AM	MPRL user meeting			
14:35	10:35 AM			14:35	10:35 AM			14:35	10:35 AM			14:35	10:35 AM				
14:40	10:40 AM	Scaled Interplanetary Coronal Mass Ejection Experiments on the Big Red Ball		14:40	10:40 AM	Coffee		14:40	10:40 AM	Coffee		14:40	10:40 AM				
14:45	10:45 AM	Rachel Young		14:45	10:45 AM			14:45	10:45 AM			14:45	10:45 AM				
14:50	10:50 AM			14:50	10:50 AM			14:50	10:50 AM			14:50	10:50 AM				
14:55	10:55 AM			14:55	10:55 AM			14:55	10:55 AM			14:55	10:55 AM				
15:00	11:00 AM			15:00	11:00 AM			15:00	11:00 AM			15:00	11:00 AM				
15:05	11:05 AM			15:05	11:05 AM			15:05	11:05 AM			15:05	11:05 AM				
15:10	11:10 AM	Modeling experimental reconnection with multidimensional kinetic simulations		15:10	11:10 AM	Magnetic and kinetic vortices in the solar plasma: sources of MHD waves excitation		15:10	11:10 AM	Fluctuations and Intermittent Transport in Multiple Entangled Magnetized Plasma Pressure Filaments		15:10	11:10 AM	Coffee			
15:15	11:15 AM	Samuel Greess		15:15	11:15 AM	Suzana S. A. Silva (remote)		15:15	11:15 AM	Richard Sydora (remote)		15:15	11:15 AM				
15:20	11:20 AM			15:20	11:20 AM			15:20	11:20 AM			15:20	11:20 AM				
15:25	11:25 AM	Studying Magnetic Reconnection and Fast Magnetic Reorganization During the Sawtooth Crash		15:25	11:25 AM	Turbulence and thermodynamics in expanding, collisionless, magnetized plasma		15:25	11:25 AM	Laboratory nano-flares generated from multiple braided current loops		15:25	11:25 AM	BAPSF user meeting			
15:30	11:30 AM	Will Fox (remote)		15:30	11:30 AM	Archie Bott		15:30	11:30 AM	Yang Zhang (remote)		15:30	11:30 AM				
15:35	11:35 AM			15:35	11:35 AM			15:35	11:35 AM			15:35	11:35 AM				
15:40	11:40 AM			15:40	11:40 AM	Investigating the Dissipation Scale in Magnetic Turbulence		15:40	11:40 AM	MagNetUS governance discussion		15:40	11:40 AM				
15:45	11:45 AM			15:45	11:45 AM	Carlos Cartagena-Sanchez		15:45	11:45 AM			15:45	11:45 AM				
15:50	11:50 AM			15:50	11:50 AM			15:50	11:50 AM			15:50	11:50 AM				
15:55	11:55 AM	Diagnostic development for measurements of energetic electrons in laboratory		15:55	11:55 AM			15:55	11:55 AM			15:55	11:55 AM				
16:00	12:00 PM	Jongsoo Yoo (remote)		16:00	12:00 PM			16:00	12:00 PM			16:00	12:00 PM				
16:05	12:05 PM			16:05	12:05 PM			16:05	12:05 PM			16:05	12:05 PM	PHASMA user meeting			
16:10	12:10 PM	Lunch		16:10	12:10 PM	Lunch		16:10	12:10 PM	Lunch		16:10	12:10 PM				
16:15	12:15 PM			16:15	12:15 PM			16:15	12:15 PM			16:15	12:15 PM				
16:20	12:20 PM			16:20	12:20 PM			16:20	12:20 PM			16:20	12:20 PM				
16:25	12:25 PM			16:25	12:25 PM			16:25	12:25 PM			16:25	12:25 PM				
16:30	12:30 PM			16:30	12:30 PM			16:30	12:30 PM			16:30	12:30 PM				
16:35	12:35 PM			16:35	12:35 PM			16:35	12:35 PM			16:35	12:35 PM				
16:40	12:40 PM			16:40	12:40 PM			16:40	12:40 PM			16:40	12:40 PM				
16:45	12:45 PM			16:45	12:45 PM			16:45	12:45 PM			16:45	12:45 PM	Lunch for governance working group; otherwise, dismiss			
16:50	12:50 PM			16:50	12:50 PM			16:50	12:50 PM			16:50	12:50 PM				
16:55	12:55 PM			16:55	12:55 PM			16:55	12:55 PM			16:55	12:55 PM				
17:00	1:00 PM			17:00	1:00 PM			17:00	1:00 PM			17:00	1:00 PM				
17:05	1:05 PM			17:05	1:05 PM			17:05	1:05 PM			17:05	1:05 PM				
17:10	1:10 PM	The Role of Magnetic Field Islands in Energetic Electron Transport		17:10	1:10 PM	A Physics Basis for Confinement Scaling in Reversed-Field Pinch Plasmas		17:10	1:10 PM	Development of a High-Time/Spatial Resolution Impedance Probe for Measurements in Laboratory and Space Plasmas - Ami M. DuBois		17:10	1:10 PM				
17:15	1:15 PM	Evdokiya Kostadinova		17:15	1:15 PM	Steph Kubaia (remote)		17:15	1:15 PM			17:15	1:15 PM				
17:20	1:20 PM			17:20	1:20 PM			17:20	1:20 PM			17:20	1:20 PM				
17:25	1:25 PM	Runaway Electron Wave-Particle Interaction Studies at DIII-D		17:25	1:25 PM			17:25	1:25 PM	Plasma Impedance Tomography for Imaging Plasma Dynamics		17:25	1:25 PM				
17:30	1:30 PM	Alexander Battov (remote)		17:30	1:30 PM			17:30	1:30 PM	Erik Telare (remote)		17:30	1:30 PM				

17:35	1:35 PM	Alexander Battey (remote)	17:35	1:35 PM		17:35	1:35 PM	Errik Tejero (remote)	17:35	1:35 PM	
17:40	1:40 PM	Spacecraft Heat Shield study in DIII-D	17:40	1:40 PM	Multi-species magnetized plasma fluid simulations with BOUT++/Hermes	17:40	1:40 PM	Field Direction Dependent Particle Heating in a Helicon Source	17:40	1:40 PM	
17:45	1:45 PM	Dmitri M. Orlov	17:45	1:45 PM	Ben Dudson (remote)	17:45	1:45 PM	Katey Stevenson	17:45	1:45 PM	MagNetUS governance working group. Open invite.
17:50	1:50 PM		17:50	1:50 PM		17:50	1:50 PM		17:50	1:50 PM	
17:55	1:55 PM	Joint solicitation presentation & discussion	17:55	1:55 PM	Contributions of fluctuation-driven Poynting flux to the energy transport in a self-organized reversed-field pinch plasma - Derek Thuecks	17:55	1:55 PM		17:55	1:55 PM	
18:00	2:00 PM		18:00	2:00 PM		18:00	2:00 PM		18:00	2:00 PM	
18:05	2:05 PM		18:05	2:05 PM		18:05	2:05 PM		18:05	2:05 PM	
18:10	2:10 PM		18:10	2:10 PM	Discussion: Opportunities to explore theory, simulation, and space	18:10	2:10 PM	Off-axis runaway-electron seed formation, growth and suppression	18:10	2:10 PM	
18:15	2:15 PM		18:15	2:15 PM		18:15	2:15 PM	Luis F. Delgado-Aparicio	18:15	2:15 PM	
18:20	2:20 PM	Gathertown walkthrough (W&M undergrad support)	18:20	2:20 PM		18:20	2:20 PM		18:20	2:20 PM	
18:25	2:25 PM		18:25	2:25 PM		18:25	2:25 PM	Poster session & coffee (see list of posters)	18:25	2:25 PM	
18:30	2:30 PM		18:30	2:30 PM		18:30	2:30 PM		18:30	2:30 PM	
18:35	2:35 PM	Poster session & coffee (see list of posters)	18:35	2:35 PM		18:35	2:35 PM		18:35	2:35 PM	
18:40	2:40 PM		18:40	2:40 PM		18:40	2:40 PM		18:40	2:40 PM	
18:45	2:45 PM		18:45	2:45 PM		18:45	2:45 PM		18:45	2:45 PM	
18:50	2:50 PM		18:50	2:50 PM		18:50	2:50 PM		18:50	2:50 PM	
18:55	2:55 PM		18:55	2:55 PM		18:55	2:55 PM		18:55	2:55 PM	
19:00	3:00 PM		19:00	3:00 PM		19:00	3:00 PM		19:00	3:00 PM	
19:05	3:05 PM		19:05	3:05 PM		19:05	3:05 PM		19:05	3:05 PM	
19:10	3:10 PM		19:10	3:10 PM	Social event: Dinner and drinks at Billsburg Brewery	19:10	3:10 PM		19:10	3:10 PM	
19:15	3:15 PM		19:15	3:15 PM		19:15	3:15 PM		19:15	3:15 PM	
19:20	3:20 PM		19:20	3:20 PM	Bus leaves at 4p from W&M ISC 540 Landrum Dr, Williamsburg, VA 23185	19:20	3:20 PM		19:20	3:20 PM	
19:25	3:25 PM		19:25	3:25 PM		19:25	3:25 PM		19:25	3:25 PM	
19:30	3:30 PM		19:30	3:30 PM	Bus departs Billsburg Brewery at 8p to return to W&M campus	19:30	3:30 PM		19:30	3:30 PM	
19:35	3:35 PM		19:35	3:35 PM		19:35	3:35 PM		19:35	3:35 PM	
19:40	3:40 PM		19:40	3:40 PM		19:40	3:40 PM		19:40	3:40 PM	
19:45	3:45 PM		19:45	3:45 PM		19:45	3:45 PM		19:45	3:45 PM	
19:50	3:50 PM		19:50	3:50 PM		19:50	3:50 PM		19:50	3:50 PM	
19:55	3:55 PM		19:55	3:55 PM		19:55	3:55 PM		19:55	3:55 PM	
20:00	4:00 PM	Liquid first wall dynamics in magnetically-confined fusion configurations Colin Adams	20:00	4:00 PM		20:00	4:00 PM	Discussion: lab measurements needed to open new frontiers	20:00	4:00 PM	
20:05	4:05 PM		20:05	4:05 PM		20:05	4:05 PM		20:05	4:05 PM	
20:10	4:10 PM		20:10	4:10 PM		20:10	4:10 PM		20:10	4:10 PM	
20:15	4:15 PM		20:15	4:15 PM		20:15	4:15 PM		20:15	4:15 PM	
20:20	4:20 PM		20:20	4:20 PM		20:20	4:20 PM		20:20	4:20 PM	
20:25	4:25 PM		20:25	4:25 PM		20:25	4:25 PM		20:25	4:25 PM	
20:30	4:30 PM	Data-driven fusion research for disruption prevention Cristina Rea (remote)	20:30	4:30 PM		20:30	4:30 PM		20:30	4:30 PM	
20:35	4:35 PM		20:35	4:35 PM		20:35	4:35 PM		20:35	4:35 PM	
20:40	4:40 PM		20:40	4:40 PM		20:40	4:40 PM		20:40	4:40 PM	
20:45	4:45 PM		20:45	4:45 PM		20:45	4:45 PM		20:45	4:45 PM	
20:50	4:50 PM		20:50	4:50 PM		20:50	4:50 PM		20:50	4:50 PM	
20:55	4:55 PM		20:55	4:55 PM		20:55	4:55 PM		20:55	4:55 PM	
21:00	5:00 PM	Dismiss for the day	21:00	5:00 PM		21:00	5:00 PM	Dismiss for the day	21:00	5:00 PM	


**Note:** Program Committee work has been performed without administrative support, and so we appreciate your understanding if a clerical error has been made in the program. Please alert us to any substantive errors by contacting [MagNetUSworkshop@gmail.com](mailto:MagNetUSworkshop@gmail.com)

**Note:** Late submissions (posters only) are being accepted using this form <https://bit.ly/abstractMNUS>

## Poster Presentations:



A list of all current poster presentations below. Late poster submissions will be added as they come in. The poster sessions are scheduled for June 7 at 2:35p ET and June 9 at 2:25p ET and all posters for both in-person and virtual participants will be held on GatherTown. Presenters are encouraged to participate in both sessions.

1. *Laboratory Measurements of Electron Velocity Distribution Functions during Electron-Only Magnetic Reconnection in PHASMA*  
Peiyun Shi
2. *Solar system storms in the lab: creating a scaled interplanetary coronal mass ejection*  
Khalil Bryant
3. *Self-organized magnetic equilibria in tokamak plasmas with very low edge safety factor*  
Noah Hurst
4. *Electron Energy Distribution Functions for Magnetic Reconnection in the PHASE Space MAPPING (PHASMA) Experiment*  
Ripudaman Singh Nirwan
5. *Preliminary Results From the NRL Plasma Surface Wave Test Setup*  
David D Blackwell
6. *Inviscid damping of a perturbed elliptical vortex in an ExB strain flow in nonneutral electron plasmas*  
Pakorn Wongwaitayakornkul
7. *Plans to experimentally explore the approach to thermal equilibrium for electron plasmas in non-uniform magnetic field traps*  
Matthew Stoneking
8. *Gkeyll as a Component of a Laboratory Simulation Facility*  
James (Jimmy) Juno
9. *Pinhole/Coded Aperture Imaging of Transient Suprathermal X-rays From a MHD-Driven Laboratory Plasma Jet*  
Yi Zhou
10. *Measurement and analysis of MHD induced wave modes in liquid metal free surfaces*  
Daniel Perry Weber
11. *Effect of density gradient and neutral density on drift-wave turbulence in LAPD*  
Leo Murphy
12. *Stable energy distribution of radical atoms under collisional energy cascade*  
Keisuke Fujii 
13. *Transition from low frequency waves to rotating spokes triggered by current injection in a magnetized plasma column*

13. *Transition from low frequency waves to rotating spokes triggered by current injection in a magnetized plasma column*

Simon Vincent

14. *Understanding the role of magnetic reconnection during sawtooth crashes in DIII-D\* using local density and temperature diagnostics*

Dingyun Liu

15. *Reconnection Drive Cylinder for the Terrestrial Reconnection Experiment*

Paul Gradney

16. *Plasma potential control in a weakly magnetized plasma column using negatively-biased emissive electrode*

Francis Pagaud

17. *Measuring the particle interaction and understanding the phase transition of the plasma crystal with varying magnetic field in MDPX*

Surabhi Jaiswal

18. *Observation of energetic electrons during ohmic startup in MST tokamak plasmas using multi-energy soft x-ray pinhole camera*

Courtney Johnson

19. *Experimental analysis of whistler waves generated by primary electrons from a hot cathode*

Jorge Berumen

20. *Emulation of a Pulsar Magnetosphere by developing a Rotating Magnetic Field*

Rene Flores-Garcia

21. *Experimental Configuration for Magnetically-Driven Jet Studies on BRB*

Priyadarshini Rajkumar

22. *Physics of the "helicon core": radial transport barrier and axial plasma detachment*

Saikat Chakraborty Thakur

23. *MPRL facility and opportunities for collaboration*

MPRL Personnel

24. *Development of a Neutral Calcium Plasma Source*

Jacob McLaughlin

25. *Formation of Organic Compounds through Meteoritic Atmospheric Shock*

Christopher Alan Mehta

26. *Phase Transition, Multiscale Magnetic Reconnection, and the FLARE Project*

Hantao Ji

27. *Effects of distribution structure on predictions of plasma behavior in marginally unstable plasma*

Emily Lichko

28. *Preliminary Effect of Magnetic Nozzle on Plasma Velocity on the Bryn Mawr Experiment*

Joshua M Carlson



29. *On the requirements for observing Alfvén wave parametric decay instability in a laboratory plasma*

Feiyu Li

30. *Diagnosing MHD-like Alfvén waves in LAPD*

Mel Ablor

31. WIPPL facility and opportunities for collaboration

WIPPL Personnel

32. BAPSF facility and opportunities for collaboration

BAPSF Personnel

33. PHASMA facility and opportunities for collaboration

PHASMA Personnel

34. DIII-D facility and opportunities for collaboration

DIII-D Personnel





Contact the MagNetUS Program Committee: [magnetusworkshop@gmail.com](mailto:magnetusworkshop@gmail.com)



# Code of Conduct

## Code of Conduct for MagNetUS 2022

(adapted from the [Contributor Covenant Code of Conduct](#) Version 2.0 and the [APS Meetings Code of Conduct](#))

*We as members, contributors, and leaders of this community pledge to make participation in this meeting a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation. We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.*

### Expectations for behavior

Examples of behavior that contributes to a positive environment for our community include:

- Demonstrating empathy and kindness toward other people
- Being respectful of differing opinions, viewpoints, and experiences
- Giving and gracefully accepting constructive feedback
- Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- The use of sexualized language or imagery, and sexual attention or advances of any kind
- Trolling, insulting or derogatory comments, and personal or political attacks
- Public or private harassment
- Other conduct which could reasonably be considered inappropriate in a professional setting

Violations of this code of conduct policy should be reported to meeting organizers. Sanctions may range from verbal warning, to ejection from the meeting to notifying appropriate authorities.

<b>Details</b>	<b>Zip</b>
Jim Schroeder	60187
Yang Zhang	91125
Mel Abler	
Samuel Greess	53703
RANGANATHAN GOPALAKRISHNAN	38152
Leo Murphy	23188
Derek Schaeffer	
Paul Gradney	53703
Evdokiya Kostadinova	36849
Joshua Carlson	
Rene Flores Garcia	53715
Carlos Cartagena-Sanchez	53590
Daniel Weber	
Alexander Battey	92103
Matthew Stoneking	54911
Frederick Skiff	52242
Cristina Rea	
David Schaffner	19010
Yi Zhou	91125
Courtney Johnson	08540
Noah Hurst	
Richard Buttery	92130
Derek Thuecks	21620
Edward Thomas	36849
Troy Carter	90034
James Juno	21230
Carlos Paz-Soldan	07040
Joseph Olson	
Rachel Young	48105
Khalil Bryant	48103
John Sarff	53705
Kristopher Klein	
Steph Kubala	
Seth Dorfman	
Simon Vincent	
Saskia Mordijck	
Jongsoo Yoo	08540
Jack Gabriel	
Earl Scime	26506
Jorge Berumen	
Jacob McLaughlin	52240
Katey Stevenson	
Abdulgader Almagri	53706
Aubrey Houser	
Evdokiya Kostadinova	36849
Vyacheslav (Slava) Lukin	

Dingyun Liu	08540
Nicholas Murphy	02138
George Vahala	
Archie Bott	08544
Linda Vahala	
Saikat Chakraborty Thakur	36832
Feiyu Li	
Peiyun Shi	26502
DIANE DEMERS	53705
Christopher Mehta	76633
Francis Pagaud	
Ripudaman Singh Nirwan	26505
Colin Adams	
Lenaic Couedel	S7N 5E2
Clifford Surko	92093
Carl Sovinec	53706-1609
Dmitri Orlov	92093-0417
Pakorn Wongwaitayakornkul	
Richard Sydora	T6H5M9
Suzana de Souza e Almeida Silva	S10 2TN
Javier Chiriboga	23185
Will Fox	20191
Allyson Sellner	53703
Ben Dudson	94550
Karsten McCollam	53706
Erik Tejero	20375
Nicolas PLIHON	69007
Ami DuBois	
Keisuke Fujii	37830
Michael Mael	10027
Priyadarshini Rajkumar	
Emily Lichko	85701
Nirmol Podder	20874
Steffi Diem	53711
Christopher Chen	
James Danielson	92093
Davida Mensah	
Luis Delgado-Aparicio	08540
Ben Israeli	
Hantao Ji	08543
Vincent Cordrey	23185-3970
Bill Amatucci	20375
David Blackwell	20375
Hari Choudhury	10025
Surabhi Jaiswal	

**Title**

Assistant Professor of Physics

Ph.D. Candidate

Postdoctoral Research Associate

PhD Student

Prof.

Effect of density gradient and neutral density on drift-wave turbulence in LAPD

Dr.

Graduate Student

Assistant Professor

Graduate Student

Mr.

Ph.D. Candidate

Mr.

Relativistic Electron Wave-Particle Interaction Studies at DIII-D

Professor

Professor

Research Scientist

Professor

Graduate Student

Graduate Student

Scientist

Scientist

Associate Professor

Professor

Professor

Dr.

Associate Professor

Research Scientist

Postdoctoral Fellow

Graduate Student

Professor

Assistant Professor

Research Assistant

Research Scientist

Post-doctorate

Professor

Research Physicist

Graduate Student

Professor

Postdoc

Graduate Student

Graduate Student

Senior Scientist

Research Intern

Assistant Professor

Program Director

N/A  
Astrophysicist  
Professor  
Dr  
associate Professor  
Assistant Research Professor  
Research Scientist  
Research Scientist  
CEO  
Postdoc  
M.  
PhD Candidate  
Assistant Professor  
Dr.  
PROFESSOR  
Professor  
Associate Research Scientist  
Lecturer  
Professor  
Dr  
Undergraduate Researcher  
Research Scientist  
Student Research  
Dr.  
Dr.  
Research Physicist  
Dr  
Dr.  
Senior R&D staff scientist  
Professor of Applied Physics  
Graduate Student  
Dr  
Program Manager  
Professor  
Dr  
Dr.  
undergraduate  
Principal Research Physicist  
Graduate Student  
Professor  
Student  
Dr.  
Dr.  
Mr  
Dr

**Institution/Employer**

Wheaton College  
Caltech  
Space Science Institute  
University of Wisconsin - Madison  
University of Memphis  
William & Mary  
Princeton University  
University of Wisconsin Madison  
Auburn University  
Bryn Mawr College  
University of Wisconsin - Madison  
Bryn Mawr College  
Virginia Polytechnic Institute and State University  
Columbia University  
Lawrence University  
University of Iowa  
MIT PSFC  
Bryn Mawr College  
Caltech  
Princeton University/PPPL  
University of Wisconsin - Madison  
General Atomics  
Washington College  
Auburn University  
UCLA  
Princeton Plasma Physics Laboratory  
Columbia University  
University of Wisconsin-Madison  
University of Michigan  
University of Michigan  
UW-Madison  
University of Arizona  
University of Wisconsin at Madison  
Space Science Institute  
Laboratoire de Physique - ENS de Lyon UMR 5672  
W&M  
Princeton University  
College of William and Mary  
WVU  
The University of Iowa  
University of Iowa  
West Virginia University  
UW-Madison  
The University of Wisconsin-Madison  
Auburn University  
National Science Foundation

Princeton University  
Center for Astrophysics | Harvard & Smithsonian  
William & Mary  
Princeton University  
Old Dominion University  
Auburn University  
New Mexico Consortium  
West Virginia University  
Xantho Technologies  
Auburn University  
Laboratoire de Physique à l'ENS de Lyon (CNRS)  
West Virginia University  
Virginia Tech  
University of Saskatchewan/Physics & Engineering Physics  
UCSD  
University of Wisconsin-Madison  
UC San Diego  
Thammasat University  
University of Alberta, Canada  
The University of Sheffield  
William and Mary  
PPPL  
UW - Madison  
LLNL  
UW-Madison  
US Naval Research Laboratory  
CNRS, ENS de Lyon  
US Naval Research Laboratory  
Oak Ridge National Laboratory  
Columbia University  
University of Wisconsin-Madison  
University of Arizona  
U.S. Department of Energy  
University of Wisconsin-Madison  
Queen Mary University of London  
UCSD  
Old Dominion University  
Princeton Plasma Physics Laboratory  
PPPL  
Princeton University  
William & Mary  
Naval Research Laboratory  
US Naval Research Laboratory  
Columbia University  
Eastern Michigan University

# Event Invoice: MagNetUS Workshop 2022



Event Number: 3314  
 Invoice Generated: 11/18/2022

**Billed to:**  
 Belmari Bello

757-221-3501  
 bmendezolivo@wm.edu

**Billed by:**  
 William and Mary, Conference and Events  
 Services  
 Post Office Box 8795  
 Williamsburg, VA 23187-8795  
 Phone: 757-221-4084

## Charges

Account	Charge Details	Date	Charge	Tax	Total
<b>Audio and Visual Services - In House</b>	AV Tech \$50 per hour. 8:30AM and 1PM on June 7, 8, 9 and 10th = \$400 + 1 Wireless mic (\$50) x 4 days. 1 Item(s) @ 600.00 per Item(s). Integrated Science Center	6/10/2022	\$600.00	\$0.00	\$600.00
	Audio and Visual Services - In House Subtotal:		\$600.00	\$0.00	\$600.00
<b>Catering</b>	Charge Breakfast 6/7/2022 8a - W&M Catering ATG Order 16663681. 1 Item(s) @ 660.80 per Item(s). Integrated Science Center	6/7/2022	\$660.80	\$46.26	\$707.06
	Charge Lunch 6/7/2022 11:45a - W&M Catering ATG Order 16663678. 1 Item(s) @ 1023.65 per Item(s). Integrated Science Center	6/7/2022	\$1,023.65	\$71.66	\$1,095.31
	Charge AM and PM break 6/8/2022 8a - 3:45p W&M Catering ATG Order 16663675. 1 Item(s) @ 729.24 per Item(s). Integrated Science Center	6/8/2022	\$729.24	\$51.05	\$780.29
	Charge lunch 6/8/2022 11:45a W&M Catering ATG Order 16663672. 1 Item(s) @ 870.25 per Item(s). Integrated Science Center	6/8/2022	\$870.25	\$60.92	\$931.17
	Charge lunch 6/9/2022 11:45a W&M Catering ATG Order 16663666. 1 Item(s) @ 870.25 per Item(s). Integrated Science Center	6/9/2022	\$870.25	\$60.92	\$931.17
	Charge lunch 6/10/2022 7a W&M Catering ATG Order 16663742. No Building	6/10/2022	\$672.60	\$47.08	\$719.68
	Charge breakfast 6/9/2022 8a W&M Catering ATG Order 16663669. No Building	6/9/2022	\$728.06	\$50.96	\$779.02
	Catering Subtotal:		\$5,554.85	\$388.84	\$5,943.69
<b>Classrooms</b>	Facilities Charges. Integrated Science Center 1221. 6/6/2022. General Session.. Integrated Science Center	6/10/2022	\$470.00	\$0.00	\$470.00
	Facilities Charges. Integrated Science Center 1221. 6/7/2022. General Session.. Integrated Science Center	6/10/2022	\$470.00	\$0.00	\$470.00
	Facilities Charges. Integrated Science Center 1221. 6/8/2022. General Session.. Integrated Science Center	6/10/2022	\$470.00	\$0.00	\$470.00
	Facilities Charges. Integrated Science Center 1221. 6/9/2022. General Session.. Integrated Science Center	6/10/2022	\$470.00	\$0.00	\$470.00
	Facilities Charges. Integrated Science Center 1221. 6/10/2022. General Session.. Integrated Science Center	6/10/2022	\$470.00	\$0.00	\$470.00
	Classrooms Subtotal:		\$2,350.00	\$0.00	\$2,350.00
	<b>Credit Card Fees</b>	Credit Card Processing Fee. No Building	6/10/2022	\$482.10	\$0.00
Credit Card Fees Subtotal:			\$482.10	\$0.00	\$482.10

# Event Invoice: MagNetUS Workshop 2022



Event Number: 3314

Invoice Generated: 11/18/2022

<b>Housing</b>	Double Bed Rate. 12 Nights @ 36.00 per Nights. Ludwell 400	6/10/2022	\$432.00	\$0.00	\$432.00
	Double Bed Rate. 9 Nights @ 36.00 per Nights. Ludwell 402	6/10/2022	\$324.00	\$0.00	\$324.00
	Single Bed Rate. 13 Nights @ 50.00 per Nights. Ludwell 400	6/10/2022	\$650.00	\$0.00	\$650.00
	Single Bed Rate. 7 Nights @ 50.00 per Nights. Ludwell 402	6/10/2022	\$350.00	\$0.00	\$350.00
	Single Bed Rate. 18 Nights @ 50.00 per Nights. Ludwell 404	6/10/2022	\$900.00	\$0.00	\$900.00
	Single Bed Rate. 12 Nights @ 50.00 per Nights. Ludwell 406	6/10/2022	\$600.00	\$0.00	\$600.00
	Single Bed Rate. 4 Nights @ 50.00 per Nights. Ludwell 302	6/10/2022	\$200.00	\$0.00	\$200.00
	Single Bed Rate. 4 Nights @ 50.00 per Nights. Ludwell 304	6/10/2022	\$200.00	\$0.00	\$200.00
	Single Bed Rate. 4 Nights @ 50.00 per Nights. Ludwell 300	6/10/2022	\$200.00	\$0.00	\$200.00
	<b>Housing Subtotal:</b>			<b>\$3,856.00</b>	<b>\$0.00</b>
<b>Management Fee</b>	Management Fee - Lodging. 6 @ 12.00. Ludwell 400	6/10/2022	\$72.00	\$0.00	\$72.00
	Management Fee - Lodging. 74 @ 12.00. No Building	6/10/2022	\$888.00	\$0.00	\$888.00
	Management Fee - Lodging. 4 @ 12.00. Ludwell 402	6/10/2022	\$48.00	\$0.00	\$48.00
	Management Fee - Lodging. 4 @ 12.00. Ludwell 404	6/10/2022	\$48.00	\$0.00	\$48.00
	Management Fee - Lodging. 3 @ 12.00. Ludwell 406	6/10/2022	\$36.00	\$0.00	\$36.00
	Management Fee - Lodging. 1 @ 12.00. Ludwell 302	6/10/2022	\$12.00	\$0.00	\$12.00
	Management Fee - Lodging. 1 @ 12.00. Ludwell 304	6/10/2022	\$12.00	\$0.00	\$12.00
	Management Fee - Lodging. 1 @ 12.00. Ludwell 300	6/10/2022	\$12.00	\$0.00	\$12.00
<b>Management Fee Subtotal:</b>			<b>\$1,128.00</b>	<b>\$0.00</b>	<b>\$1,128.00</b>
<b>Other Vendor</b>	Billsburg social event invoice#WM002 for 6/8/22 . 1 Item (s) @ 2248.80 per Item(s). No Building	6/10/2022	\$2,248.80	\$0.00	\$2,248.80
	6/8/22 Oleta Coach Lines Contract# I.C.C. MC-192798. 846.08 per 55 passenger bus. . 1 Item(s) @ 846.08 per Item(s). No Building	6/8/2022	\$846.08	\$0.00	\$846.08
	<b>Other Vendor Subtotal:</b>			<b>\$3,094.88</b>	<b>\$0.00</b>
<b>Registration Services</b>	Late Registration Services Fee - Full Service. 2 Attendee (s) @ 30.00 per Attendee(s). Integrated Science Center	6/10/2022	\$60.00	\$0.00	\$60.00
	Registration Services Fee - Full Service. 93 Attendee(s) @ \$25.00 per Attendee(s).. 25 Attendee(s) @ 93.00 per Attendee(s). Integrated Science Center	6/10/2022	\$2,325.00	\$0.00	\$2,325.00
	Manual Name Tags Produced. 93 Attendee(s) @ 1.25 per Attendee(s). No Building. 93 Attendee(s) @ 1.25 per Attendee(s). No Building	6/10/2022	\$116.25	\$0.00	\$116.25
	Lanyards Produced. 93 Attendee(s) @ 1.25 per Attendee (s). No Building. No Building	6/10/2022	\$116.25	\$0.00	\$116.25
	<b>Registration Services Subtotal:</b>			<b>\$2,617.50</b>	<b>\$0.00</b>
<b>Sleeping Room Linens</b>	20 linen sets. 20 Attendee(s) @ 25.00 per Attendee(s). Integrated Science Center	6/7/2022	\$500.00	\$0.00	\$500.00
	<b>Sleeping Room Linens Subtotal:</b>			<b>\$500.00</b>	<b>\$0.00</b>
<b>Subsidized Summer Parking Fee</b>	21 to 50 attendees \$100 parking fee . Integrated Science Center	6/10/2022	\$100.00	\$0.00	\$100.00
	<b>Subsidized Summer Parking Fee Subtotal:</b>			<b>\$100.00</b>	<b>\$0.00</b>

# Event Invoice: MagNetUS Workshop 2022

Event Number: 3314

Invoice Generated: 11/18/2022



<b>Waivers- Meeting Space</b>	University Sponsored Group Discount of 50% on Integrated Science Center Meeting Space. Integrated Science Center	6/10/2022	\$1,175.00	\$0.00	\$1,175.00
	Waivers-Meeting Space Subtotal:		\$1,175.00	\$0.00	\$1,175.00
<b>Charge Total:</b>			<b>\$21,458.33</b>	<b>\$388.84</b>	<b>\$21,847.17</b>

## Payments

Date	Notes	Name	Payment Type	Payment
6/11/2022	Deposit 2. V0705. Onsite Registration for James Schroeder	MagNetUS Workshop 2022	Visa	\$100.00
6/11/2022	Deposit 2. V9805. Onsite Registration for Steve Vincena	MagNetUS Workshop 2022	Visa	\$150.00
6/29/2022	Deposit 3. V6903. Onsite Registration for Cary Forest	MagNetUS Workshop 2022	Visa	\$150.00
6/6/2022	Registration Payments Received through Registration Site.	MagNetUS Workshop 2022	Other-CR	\$15,424.00
<b>Payment Total:</b>				<b>\$15,824.00</b>

<b>Balance:</b>	<b>\$6,023.17</b>
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