

Welcome to the 2021 PPPL Graduate Summer School

Presenters: Elizabeth Paul, Adelle Wright, Lise-Marie Imbert-Gérard,
Ammar Hakim, Andy Alt, Derek Schaeffer, Marien Simeni Simeni,
Brian Kraus

Hosted by: Arturo Dominguez and the Science Education Department

Target audience of the PPPL GSS

- While there are several plasma “summer schools” they are usually focused on advanced topics in plasma physics (e.g. Sherwood conference, Michigan HEDP, etc.).
- The PPPL Summer School is intended for a broad plasma physics and fusion sciences audience.
- Target audience is students who are early in their graduate careers and may use the content to guide their research.



The GSS features 3 mini-courses (4 lectures each)

Stellarators



Prof. Lise-Marie
Imbert-Gérard



Dr. Adelle
Wright



Dr. Elizabeth
Paul

Computational Plasma



Dr. Ammar
Hakim

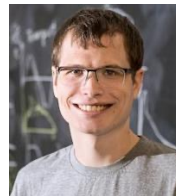
Plasma Diagnostics



Dr. Marien
Simeni Simeni



Dr. Brian
Kraus



Andy
Alt



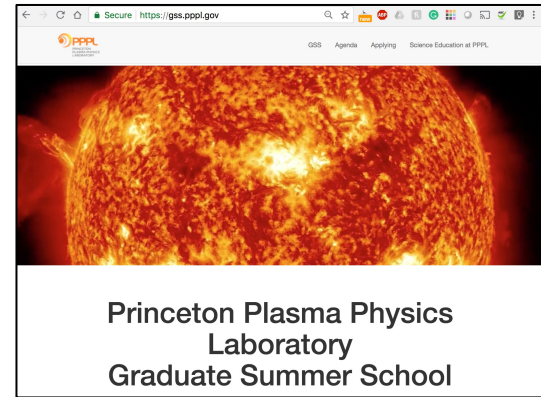
Dr. Derek
Schaeffer



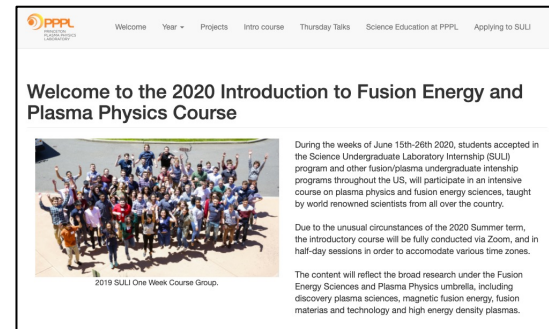
Streaming and archiving

- All talks will be streamed on the GSS website, open to everyone:
<https://gss.pppl.gov/>
- They will become available later to view on the site.
- This follows the model of the PPPL intro to fusion/plasma intro course:
<https://suli.pppl.gov/>

GSS site



Intro to fusion/plasma site



2020 and 2021 have been difficult

- While we've streamed all lectures since the first year of the summer school (2018), this year it is fully remote as was 2020.
- While there's no substitute to the in-person experience, the remote format expands the reach of the course
- We received >170 applications from all over the world
- 28 students from, both, national and international institutions are enrolled
- The "small" size is meant to enable personalized attention



Beyond the mini-courses

- Participants will have a networking session with PPPL graduate students Wednesday at 4pmET
- Some students will give oral presentations on their research during the week.
- On Wednesday, participants will attend the PPPL HS and undergraduate poster session.
- Participants will present on their research / group's research Thursday morning.



Continue the conversation online

- With the 2020 and 2021 Intro course, we created a server in the communication platform Discord: “Fusion/Plasma Undegrads Grads”. In fact, it was created by a former SULI, 2021 GSS participant, Nigel DaSilva
- With over 450 members, the server was widely used during the intro course and during the summer.
- A “2021 GSS” category was created for GSS-specific conversations.
- We welcome the speakers, enrollees and anyone watching to join the conversation!
- Join here: <https://discord.gg/cuBGTc7>



These are not normal times and we should acknowledge this

- The reason the course is remote is because we are living during a pandemic.
- All talks are recorded and will be posted, so practice self-care. Take rests, sit out when you're exhausted, stretch, stay hydrated, etc.
- **YOUR HEALTH AND WELL BEING ARE THE PRIORITY!**



Code of conduct

- Since this is a public forum we ask speakers and participants to:
- Make participation in our community a harassment-free experience for everyone
- Act in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community
- We align with the [Contributor Covenant Code of Conduct](#)



Code of conduct: Unacceptable Behaviors

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



Code of conduct: Positive Behaviors

- Demonstrating empathy and kindness
- Being respectful of differing opinions and experiences
- Giving and gracefully accepting constructive feedback
- Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience



Code of conduct: Positive Behaviors

- Respect the pronouns of others
- Recognize that intent is not equal to impact
- **Self-Care is revolutionary!**



Make the most of the GSS

- Ultimately, the PPPL GSS is a chance for graduate students from all across the country (and the world) in different fields of plasma physics to come together and meet the scientists and students in the field.
- Take this opportunity to practice your presentation skills in a friendly setting.
- Explore fields of plasma physics you're unfamiliar with.
- Ask lots of questions!

