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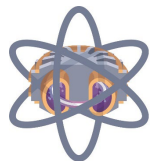
# INFUSE Mini-Workshop FY2024

**A. Lumsdaine & E. Gilson**

**Introduction**  
November 9, 2023

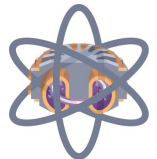
# Agenda

- Noon Opening (Gilson, Lumsdaine, Nehl)
- 12:10 INFUSE Program Updates (Lumsdaine)
- 12:35 Townhall meeting on INFUSE future
- 1:15 Fireside chat from experienced INFUSE awardees
- 1:45 Break
- 2:10 Technical discussions (INFUSE project successes)
- 3:45 Plans for in-person INFUSE Workshop
- 4:00 End of Meeting



# Mini-webinar communication

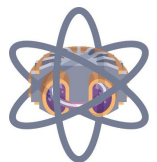
- **Please mute your microphone during all presentations**
- **During Q&A sessions**
  - Use Raise Hand feature if you would like to ask a question or make a comment, and the moderator will call on you one-by-one as long as time allows.
  - Feel free to use Chat feature if you prefer, and the moderator will bring forward these questions as well.
- **This meeting is being recorded**



- **Thank you to Walter Guttenfelder, former Deputy Director who began working with Type One Energy on May 1, 2023.**



- **Welcome Erik Gilson, new Deputy Director.**



# INFUSE Leadership

## INFUSE Program Manager



Colleen Nehl

## INFUSE Director

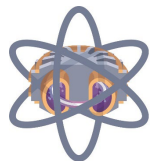


Arnold Lumsdaine

## INFUSE Deputy Director

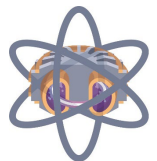


Erik Gilson



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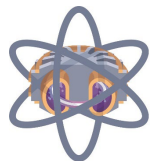


## Participants

- Matt Reinke (CFS)
- Nate Ferraro (PPPL)
- Ales Necas (TAE)
- Ted Biewer (ORNL)
- Elena Belova (PPPL)

## Questions

- **Preparation:** How did your partnership start?
- **Application:** What were the ingredients for a successful proposal?
- **Execution:** What are the ingredients for a successful project implementation?
- **Continuation:** What has happened to the work since the project completion?



# Technical discussions

- 2:10-2:25 Ken Miller (ESNet)
- 2:25-2:35 Andrzej Nycz (ORNL) Advanced manufacturing for tokamak internal components
- 2:35-2:45 Jeremy Lore (ORNL) Time-dependent boundary modeling to inform design of SPARC diagnostic and actuators
- 2:45-2:55 Ales Necas (TAE) Plasma diagnostic development
- 2:55-3:05 Phillip Bonofiglo (PPPL) Initial fast particle results from a candidate quasiaxisymmetric stellarator configuration
- 3:05-3:15 Bruce Pint (ORNL) Steps in assessing compatibility for liquid breeders
- 3:15-3:25 CS Chang (PPPL) XGC gyrokinetic modeling of divertor heat-exhaust footprint in a high-current ST40 discharge
- 3:25-3:35 Jin Whan Bae (ORNL) Fusion Neutronics Capabilities in the Fusion Energy Reactor Models Integrator (FERMI)
- 3:35-3:45 Diana Grandas (EPRI) Vision for an EPRI Fusion Program to Support Fusion Commercialization

