

## Materials at Purdue Symposium (M@PS) 2025 Call for Abstracts

The Materials Science and Engineering Graduate Student Association (MSEGSAs) invites graduate and postdoctoral scholars at Purdue University to submit an abstract for the third annual Materials at Purdue Symposium (M@PS). M@PS submissions will highlight current research in areas related to materials science and engineering, including;

- Metallic and alloyed materials
- Ceramics
- Polymers and polymer composites
- Interfacial materials
- Materials modeling
- Materials discovery
- Bio- and bio-inspired materials
- Materials synthesis
- Semiconductors
- Electronics and energy storage
- Functional and sensing materials
- Energetic materials
- Additive manufacturing
- Nuclear materials
- Environmental degradation

### Event details

**Friday, May 30th**

**8:30-4pm in Armstrong Hall room B071**

**Agenda to follow**

### Contact

[msegsa@purdue.edu](mailto:msegsa@purdue.edu) (general inquiries)

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(organizer)

### Presentation format

- Slides can be presented from a personal computer or sent to the organizer in advance
- Data references are required, but a citation page is optional

### General Info

- Presentations may include any in-progress or completed work pertaining to materials science and engineering
- Presentations will fall into one of two categories:
  - a. Traditional Oral Presentation: Maximum length of 12 minutes, followed by 3 minutes of questions
  - b. Pecha Kucha: 20 slides that autoadvance every 20 seconds (6 minutes and 40 seconds total), followed by 3 minutes of questions. Please use little to no words on these slides, and focus on images
- Abstracts may have been presented or published previously and are required for both presentation formats

### Submission guidelines

- Deadline: April 25th
- Submissions will consist of a typed abstract (text only) of 250 words or less describing novel research conducted primarily by the presenting author
- All additional authors should be listed, with the principal author first and senior author last
- Abstracts should outline the project's motivation, methods, and results
- Abstracts will be reviewed using a common rubric - see below
- From the highest scoring abstracts, 16 presenters will be selected
- Initial decisions regarding presenters will be sent out no later than May 2nd, and presenters will have one week to confirm their participation

## Reviewer Rubric

	Needs Improvement (1)	Meets Requirements (2)	Exemplary (3)
<b>Background</b>	The relevance of the research is not clearly connected to a larger context	A larger field or public need is mentioned, but the connection to the research is understated or questionable	The work is clearly placed in the context of a scientific field or public need, leading to a clear motivation for research
<b>Methodology</b>	Methods cannot be understood from the abstract	Research methods are clearly described in a way that is excessively wordy, unclear, or not connected to the goal of the research	Research methods are briefly described and clearly address a hypothesis or investigative goal
<b>Impact</b>	The conclusions of the work are not clearly connected to experimentation or are stated as results without needed interpretation	The conclusions of the work come from research results but are presented without a connection to motivation or impact	The conclusions of the work are connected to research results and relate to a motivation for research or greater impact
<b>Organization</b>	The abstract is structured or written in a way that requires significant interpretation by the reader	The organization of the abstract does not hinder comprehension but does not have a logical flow	The abstract has a consistent flow of ideas that aids the reader's understanding of the work discussed
<b>Length</b>	The abstract is missing portions of text <i>or</i> exceeds the reasonable length of a paragraph	The abstract understates key points <i>or</i> adds background or research details as "filler"	The abstract provides all needed information while excluding excessive description

### Recommended Slide Order

The following organization and topics are suggested for both traditional talks or Pecha Kucha

Title Slide: Choose a brief, descriptive title and identify your college, advisor, collaborators, and funding sources.

Background: Provide key information needed to understand the topic and present a clear motivation for research.

Project outline: outline the phases of the project which will be discussed and the steps that are anticipated. This should help junior students understand the research process.

Methods: Describe the experimental process and discuss any nonstandard characterization, testing, and data analysis methods used

Results: Present key results using formatted graphs, tables, and/or images. Identify any crucial, unexpected, or otherwise novel findings.

Conclusions: Summarize the work and its major conclusions and identify the impact of your work in the context of the stated motivation for research.

Acknowledgements: Thank any collaborators, funding agencies, and mentors.