Materials at Purdue Symposium

Call for Abstracts

The Materials Science and Engineering Graduate Student Association (MSEGSA) invites graduate and postdoctoral scholars at Purdue University to submit an abstract for the *second* 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 24th
8am-4pm in Armstrong Hall
(Agenda to follow)

Contact

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(general inquiries)
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Ankit Kumar; kumar534@purdue.edu
(organizers)

General info

- Presentations may include any in-progress or completed work pertaining to materials science and engineering
- Presentations will have a maximum length of 12 minutes, followed by 3 minutes of questions
- Abstracts may have been presented or published previously

Submission guidelines

- Deadline: April 12th
- 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 on April 19th, and presenters will have one week to confirm their participation

Presentation format

- A standard set of slides is suggested to maintain consistency between presenters - see below
- Slides can be presented from a personal computer or sent to a session chair in advance
- Data references are required, but a citation page is optional

Reviewer rubric

	Needs improvement (1)	Meets requirements (2)	Exemplary (3)
Background	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.
Methodology	Methods cannot be understood from the abstract.	Research methods are 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.
Impact	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.
Organization	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.
Length	The abstract is missing portions of text *or* exceeds the reasonable length of a paragraph.	The abstract understates key points *or* adds background or research details as "filler."	The abstract provides all needed information while excluding excessive description.

Recommended Slide Order

Title slide: Choose a brief, descriptive title and identify your college, advisor, and collaborators.

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 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.