



2010 Mathematics & Science Undergraduate Research Symposium Fayetteville State University, Fayetteville, NC

Co-sponsored by CPSER, FSU-RISE, NC-LSAMP, UCAMCS, and OpTIMUM

The **2010 Mathematics & Science Undergraduate Research Symposium** is a two-day event that will be held on **Friday, April 16, 2010** (8:00 am – 5:00 pm) and **Saturday, April 17, 2010** (9:00 am – 1:00 pm) in the Lyons Science Annex (LSA) and Lyons Science Building at Fayetteville State University, Fayetteville, North Carolina. **Registration will be held in the Lyons Science Annex (LSA) lobby on Friday from 8:00 am – 9:00 am; and Saturday from 9:00 am to 9:30 am.** Students and faculty who have conducted research in STEM disciplines [science-(behavioral/biomedical), technology, engineering, mathematics, and computer science] are encouraged to submit an abstract. All abstracts are reviewed for poster presentations (students only) and oral presentations (faculty/students). Please read the following items carefully as they are critical to the abstract preparation, submission, review and acceptance process.

GENERAL INFORMATION

Important Dates & Deadlines

Abstract Submission Deadline:	March 26, 2010 12:00 midnight Eastern Standard Time
Registration Deadline:	April 01, 2010 12:00 midnight Eastern Standard Time
Late Registration Deadline:	April 08, 2010 12:00 midnight Eastern Standard Time

Types of presentation

Oral presentations (students and faculty presenters)

Presentation should be a maximum of 15 minutes (10 minutes for presentation and 5 minutes for questions and answers).

Each presentation room will be equipped with a PC computer and a LCD projector to enable MS 2007 PowerPoint presentations. Other materials will be available upon special request; please contact the symposium coordinator no later than April 8, 2010 to check availability.

Posters (student presenters only)

Poster setup should be from 8:00 am until 8:30 am on the day of the event and are expected to remain displayed for the entire event. Students are required to be standing at their poster during the duration of the poster session.

All posters are required to be mounted onto a 4' (h) x 6' (w) cork poster board using standard push pins. Push pins and cork boards will be available at the symposium during the setup time. We will NOT have tables to accommodate tri-fold standing posters.

Judging of student poster and oral presentations

All student posters and oral presentations will be judged by a three member team comprised of faculty and staff members. For each presentation category, students earning the top three scores will be awarded a first, second, and third place award respectively.

Eligibility

- Any student who has conducted research in STEM disciplines [science-(behavioral/biomedical), technology, engineering, mathematics, and computer science] may submit an abstract.
- **ONLY STUDENTS can be presenting authors for poster presentations.**
- **Faculty and students can be presenting authors for oral presentations.**
- **ONLY ONE STUDENT can present one abstract.**
- Duplicate abstracts submitted by different authors are not allowable and will be automatically rejected.
- Abstracts that have been submitted to another conference are welcome. However, the requirements for preparing an abstract as well as the selection criteria may differ from other conferences. Be sure to prepare an abstract that is appropriate for this symposium.

Role of Research Advisor and Program Director

- Research advisor and/or Program Director **must** approve every abstract submitted by student(s). Students are required to seek his/her adviser's permission prior to submitting the abstract.
- Program Directors and Research Advisors will be discouraged from coaching or speaking during the student presentation, but may be present to provide moral support for the student.

GUIDELINES

Abstracts are limited to 2500 characters (not counting names and addresses of authors and abstract title).

Before submitting your abstract

- Abstracts will be reviewed to be accepted for presentation at the 2010 Mathematics & Science Undergraduate Research Symposium. Be sure to adhere to all guidelines and review criteria. Students' abstracts must have at least two authors. Students' **abstracts with only one author are not allowed and will be automatically rejected.**
- Authors must be listed in the following order: **the first author is the presenting student, the second author is the student's research advisor; all other co-authors, if appropriate, are to follow. Co-authors may be other students, faculty members, or program directors.**
- Faculty making oral presentations will use the same abstract submission guidelines; no mentor is required.
- Abstracts will not be edited by the Symposium staff. Typographical and grammatical errors appear as submitted. Proofread your work prior to submission.
- Abstract rejections are final. There is no appeals process.

Guidelines for preparing an abstract

- Presenting author should be in **bold**; indicate mentors name in *italics*.
- Type the body of your abstract in MS Word, preferably in a **single paragraph using Times New Roman, 12-point font and single line spacing**. Attach the file (MS Word file) to email and send to ewhite@uncfsu.edu.
- Do not indent the paragraph.
- Do not include a table of contents.
- Do not include tables, graphics or charts.
- Keep within the **2500 character limit** (this does not include spaces).
- Make sure each author's email address (including your research advisor) is placed at the bottom of you abstract.
- DO NOT use the same email address for all authors.
- Be certain **BOTH your research advisor and/or Program Director** have reviewed your abstract.
- If you participate in other programs, enter your Program Director address (mailing and email) in the additional information section.

Sample Abstract of One or Two Authors

Multicopy Supression of an *ivl* Gene in *Escherichia coli* K-12.

Jane Jackson, *Sarah Smartone*, Ph.D.
Department of Natural Sciences,
Fayetteville State University, Fayetteville, NC.

Enteropathogenic strains of *Escherichia coli* are increasingly important agents of many diarrheal diseases.....

Sample Abstract of Three or More Authors

Multicopy Supression of an *ivl* Gene in *Escherichia coli* K-12.

Jane Jackson¹, *Wilma Smartone*, Ph.D.², Jane Doe, B.S.³.
Department of Natural Sciences
¹Fayetteville State University, Fayetteville, NC, ²Northern Arizona University,
Flagstaff, AZ, ³Savannah State University, Savannah, GA.

Enteropathogenic strains of *Escherichia coli* are increasingly important agents of many diarrheal diseases.....

Guidelines for submitting an abstract

- **Email your abstract (as an MS word file) to ewhite@uncfsu.edu.**
- **On-line submission is not available.**
- All submissions must be received by 12:00 midnight Eastern Standard Time on March 26, 2010. Late submission will not be accepted.
- Submission of an abstract does not equal registration. You must register to attend the 2010 Mathematics & Science Undergraduate Research Symposium. **The registration deadline is April 01, 2010.**
- A confirmation of receipt of an abstract does not equal acceptance to the symposium.

Guidelines for acceptance

- Once the reviews are complete, an email will be sent to all primary authors (only) using the email address included during the abstract submission process. The email will indicate acceptance or rejection of the abstract.
- Student notified of acceptance of their abstract for a **poster presentation** must report to the Lyons Science Annex at 8:00 a.m. on April 16, 2010 to set-up their poster.
- Student or faculty notified of the acceptance of their abstract for an **oral presentation** must report to the Lyons Science Annex or Lyons Science Bldg. (presentation rooms will be designated in the abstract booklet) approximately 15 minutes before the start of their presentation on April 16, 2010 to load their presentation. All presentations must be on a flash drive.
- Abstract rejections are final. There is no appeals process or opportunity to resubmit.