



Duquesne University Undergraduate Research Program

The 2009 Summer Research Symposium

Sponsored by

**The Bayer School of
Natural and Environmental Sciences**

Keynote Address:

Karl Haider, Ph.D.

Bayer MaterialScience

*“Megatrends and Materials – Meeting the Challenges
of the 21st Century”*

**Friday, July 31, 2009
9:00 a.m. – 4:00 p.m.
Bayer Learning Center &
Mellon Hall of Science
Pittsburgh, PA**

Megatrends and Materials – Meeting the Challenges
of the 21st Century

The graphic features five vertical panels, each with an image and a caption:

- Growing population - Changing societal demographics**: Image of a dense crowd of people.
- Globalization - Urbanization**: Image of a city skyline with the Transamerica Pyramid.
- Climate Change - global warming Energy - fossil resources - shortage**: Image of a melting ice cube over a blue globe.
- The Healthcare Revolution**: Image of a human torso with green, glowing, circuit-like patterns.
- Accelerating Technology Changes - dynamic market change**: Image of a red circuit board.

Invitation to the 2009 Summer Undergraduate Research Symposium at Duquesne University Friday, July 31, 2009

A Celebration of Undergraduate Research in the Greater Pittsburgh Area

Undergraduate students are invited to submit abstracts and present posters. Abstracts and posters must conform to the format described within and at www.science.duq.edu. To be considered to speak of your research at the plenary session (maximum of 15 minutes), please send email to urp@duq.edu.

Abstracts are to be submitted by Wednesday, July 15, by 5 p.m. (no exceptions):

- **Students are to submit the online “Abstract Submission and R.S.V.P.” form at www.science.duq.edu/opportunities/2009SymposiumReg.html.**
- **Abstracts must be emailed to urp@duq.edu. Abstracts must be a maximum of 150 words in length, not including titles and names (see formatting guidelines on p. 3); anything over 150 words is cut off. Posters must fit into a 4' x 4' space.**

Students wishing to speak of their research at the plenary session will be notified about the acceptance of their proposals by Tuesday, July 21, 2009.

Schedule for Research Symposium, July 31, 2009

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| 9:00 AM | Registration, Continental Breakfast and Poster Set-Up (Mellon Hall Patio) |
| 10:00 AM | Welcome, Dr. David W. Seybert, Dean, Bayer School of Natural and Environmental Sciences, Duquesne University (Pappert Lecture Hall, Bayer Learning Center) |
| 10:10 AM | Keynote Address, Karl Haider, Ph.D., Bayer MaterialScience (Pappert Lecture Hall, Bayer Learning Center) |
| 11:00 AM | Plenary Session (Pappert Lecture Hall, Bayer Learning Center) |
| 1:00 PM | Lunch (Mellon Hall Patio) |
| 2 - 4:00 PM | Poster Session (Mellon Hall Patio) |

Lunch: Participants planning to attend picnic lunch must R.S.V.P. by Friday, July 24, by noon. Lunch is free of charge to all participants and guests. It is not necessary to present a poster or oral presentation in order to attend lunch. Please email your R.S.V.P. for lunch to urp@duq.edu.

Parking: Parking is available in the Forbes Avenue Garage at Duquesne University. See page 4 for a map of Duquesne University and driving directions.

Contact Information:

Philip Clarke
100 Mellon Hall
Duquesne University
Pittsburgh, PA 15282

Phone: (412) 396-4172
Fax: (412) 396-4881
Email: urp@duq.edu
Web: <http://www.science.duq.edu/opportunities/2009Symposium.html>

Format of Accepted Abstracts

Abstracts must be submitted in this format using **10 pt. Arial** font:

Title of Written Abstract (bold)

Authors (Last name, first name; Last name, first name; etc.)

Academic Department

University

Abstract: The text of your abstract goes here. The number of words in the abstract cannot exceed 150 words. Words over this limit will be removed.

Duquesne University Campus Map



[Click here](#) for directions to Duquesne University.