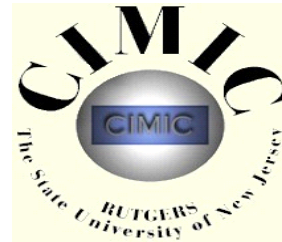


Center for
Information Management,
Integration and Connectivity

CIMIC

Recent growth in computer power and connectivity has penetrated into the daily lives of humans. Industry has responded to this growth by capitalizing on the advances in science technology and has been working on the research and development of new applications that lead to the invention of new products and services. Today, electronic information is being created by many people and data is being gathered in many forms and formats, stored in many repositories around the world, and is becoming increasingly interconnected via electronic networks. These developments have fostered the new area of digital libraries, which is concerned with managing and bringing coherence, usability, and accessibility to this very large amount of distributed complex data, and with transforming such data into information and knowledge. By collaborating with researchers and industry experts from various disciplines, CIMIC provides a platform for multidisciplinary, integrated research and development activities. As an example, QDMS, a data warehousing prototype developed at CIMIC has been adopted by a commercial consulting company, MFG Systems Inc., and is presently being marketed.



RUTGERS
NEWARK

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<http://cimic.rutgers.edu/camp/camp2008>

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Newark, NJ 07102
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Center for Information
Management,
Integration and
Connectivity

**SCIENCE & TECHNOLOGY
SUMMER CAMP**

**GLOBAL WARMING &
TECHNOLOGY**

Dr. Nabil R. Adam

SCIENCE & TECHNOLOGY SUMMER CAMP OVERVIEW

The Science and Technology Summer Camp 2008 at Rutgers University, Newark will address the global warming and climate changes that have greater impact on the environment, ecosystem and humans. Upper middle and high school students from the school district of Newark, New Jersey will learn how to search and gather data, how to organize, analyze and visualize them to support decision making for identifying the trend of global warming, and detecting evidence of its effects.

The summer camp participants will research and develop global warming information system in computer labs as well as through field work. Participants will play the role of young environmental science interns to support the decision makers through research of the information needed for global warming analysis and mitigating actions, to design and implement a global warming decision making analytical tools, as well as to present their work with multimedia presentations. Students will visit the museum to deepen their understanding of the global warming and its global effects.

On the last day of camp, students will have an opportunity to share their camp activities and experience with teachers, parents, relatives and friends through a multimedia presentation, which will be open to the public.

SPECIFIC GOALS

- Learn the basic science in the global warming (Green house effects)
- Understand the inter-dependence between human activities and the global warming
- Learn the effects of the global warming on the environmental, ecosystem, and human health
- Learn the necessary information to effectively show the development of global warming and its effects
- Learn analytical tools and methods used to analyze data for local and global mitigating actions and policy decision making
- Design and develop some components of a global warming data analysis tool
- Develop scientific content delivery and communication skills

ELIGIBILITY

Selection for the program is based on the following criteria:

- Students attending or soon to be attending High School (grades 8-12) in Newark, NJ area
- Must have a strong interest in science, mathematics, and technology
- A recommendation from teachers and/or counselors
- Underrepresented minorities (African-American, Hispanic, and Native American)

The program will run daily from July 7th to July 18th. Starting at 9:00AM and running until 12:00PM, it will be held at the Center for Information Management, Integration and Connectivity (CIMIC) Rutgers-Newark Campus.

REGISTRATION

Students Full Name:

Address: _____

Street

Apt. #

City

State

Zip Code

Home Phone: _____

Emergency Phone: _____

Mother/ Guardian's Full Name:

Father/ Guardian's Full Name

Student's Date of Birth: _____

School Attending:

School Name

School District (City)

Grade