



ECSU's Computational Science - Scientific Visualization Center

<http://cssvc.ecsu.edu>

2007 - 2008 Newsletter, Volume II: March 2008 - August 2008

PARTICIPATING NAM INSTITUTIONS

1. Delaware State University
2. Elizabeth City State University
3. Howard University
4. Jackson State University
5. Lincoln University
6. Mississippi Valley State University
7. Morehouse College
8. Shaw University
9. Spelman College
10. Tennessee State University
11. Winston-Salem State University

2008 ECSU - NAM SUMMER INSTITUTE IN COMPUTATIONAL SCIENCE MAY 12 - 23, 2008



(left to right) Front row: Dr. Bland, Unquiea Wade, Anisah Nu'Man, Jamika Baltrop, Ashley Rouser, Amanda Eure, Shatina Morgan, Kevin Jones, Joan Kibaara, Dr. Bland, Dr. Kulkarni. Back Row: Dr. Houston, Dr. Chandler, Dr. Luttamaguzi, Jessica Wilson, Lee Smalls, Brittany Maybin, Diaminatu Goudiaby, Michelle Burke, Ashley Sullivan, Alvin McClerkin, Darius Wheeler, Samuel Ivy, Benjamin Harvey, Donnell Terry, La'Trent Brock, Dr. Alexander

SPONSORS

The Institute was sponsored by Elizabeth City State University (ECSU) and the National Association of Mathematicians, Inc. (NAM) and with funding support from the Dept. of Energy (DoE). It was held on the campus of Elizabeth City State University in Elizabeth City, NC.

ABOUT THE SUMMER INSTITUTE IN COMPUTATIONAL SCIENCE

This Institute is an intense two-week program where participants from a variety of HBCU's/MI's can learn, by research experiences, that Computational Science is an approach to the study of scientific and real world phenomena by extensive use of mathematical modeling, numerical methods, and simulation coupled with computer programming and computer visualization techniques. The Institute exposes participants to Computational Science by a series of tutorials and presentations by the Institute Coordinators and visiting Faculty Mentors.



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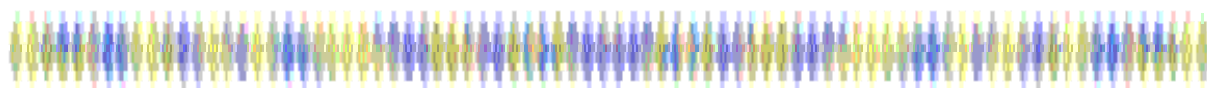
RESEARCH TEAM I



Group Topic: "An Investigation of Possible Effects of Global Warming on Forest Fires in Kentucky from 1945 to 2004"

Mentor: Dr. Jamiiru Luttamaguzi

Student members: (left to right) Kevin Ivy, Jamika Baltrop, Ashley Sullivan, Amanda Eure, Kevin Wingfield



RESEARCH TEAM II



Group Topic: "An Investigation of Energy Consumption of 25 Universities in Measuring a Carbon Footprint Based on Carnegie Level Classification"

Mentors: Dr. Constance Bland
Dr. Andrea Lawrence

Student members: (left to right) Unquiea Wade, La'Trent Brock, Alvin McClerkin, Michelle Burke, Brittany Maybin



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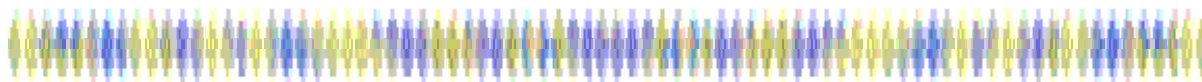
RESEARCH TEAM III



Group Topic: "A comparative Study of Energy Usage by America and Japan Over a Ten year Period"

Mentor: Dr. Krishna Kulkarni

Student members: (left to right) Joan Kibaara, Lee Smalls, Anisah Nu'Man, Jessica Wilson, Donnell Terry



RESEARCH TEAM IV



Group Topic: "A Study of the Correlation Between Air Quality and the Number of Visitors of the Great Smokey Mountain National Park Between 2002 and 2006"

Mentor: Dr. Farrah Chandler

Student members: (left to right) Darius Wheeler, Shatina Morgan, Benjamin Harvey, Ashley Rouser, Diaminatou Goudiaby



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INSTITUTE PRESENTERS/FACULTY MENTORS



Dr. Johnny Houston, Elizabeth City State University

Topics: Mathematical Modeling/Data Mining, Using Programming Techniques/ Computational/Visualization, Developing Research Topics, "CSSVC A Critical Thinking Approach to the Study of Science"



Dr. Farrah Chandler, Elizabeth City State University

Topics: Numerical Methods: Solving Systems of Linear Equations Using Iterative Methods, Data Analysis: MATLAB/ Mathematica/ Maple



Dr. John Alexander, Miami-Dade Community College

Topics: Computational Modeling - Numerical Methods, Operations Research- Linear Programming, Operation Research Applications Using CSSV, Regression Analysis Applications, Markov Chains and Simulation Models.



Dr. Krishna Kulkarni, Elizabeth City State University

Topics: MATLAB - Visualization, Mathematica - Visualization, Visio- Professional - Visualization, Geometer's Sketchpad, and



Dr. Andrea Lawrence, Spelman College

Topics: Website Construction using HTML/Java/Pearl/Dreamweaver



Dr. Jamiiru Luttamaguzi, Elizabeth City State University

Topic: Programming in JAVA.



Dr. Constance Bland, Mississippi Valley State University

Topics: Data Analysis using MathCAD,



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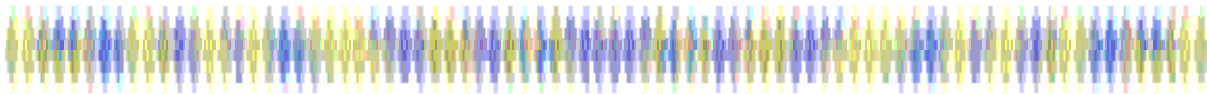
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SCHEDULE OF EVENTS

Monday, May 12	A. 9:00 am - 3:00 pm B. 2:00 pm - 4:15 pm C. 4:30 pm - 6:00 pm D. 6:00 pm - 7:00 pm	Travel Day Lodging Check In Opening Dinner - Golden Corral Restaurant Orientation - CSSV Center; 138 Lane Hall
Tuesday, May 13	A. 7:30 am - 8:20 am	Continental Breakfast
Wednesday, May 14	B. 8:30 am	Vans leave hotel for CSSV Center
Thursday, May 15	C. 8:50 am - 9:50 am	Tutorial I: Computational Modeling/Num. Methods
Friday, May 16	D. 10:10 am - 11:10 am E. 11:30 am - 12:45 pm F. 12:45 pm - 2:15 pm G. 2:15 pm - 3:30 pm H. 4:00 pm - 5:30 pm I. 6:00 pm - 7:30 pm J. 7:30 pm - 9:30 pm	Tutorial II: Computer Programming/Sci. Visualization Tutorial III: Computational Science: Tools & Tech. Lunch CSSV Seminar (Lecture/Presentation) Project Exploration/Project Development - Teams Dinner Open CSSV Center/Group and Independent Study
Saturday, May 17	A. 7:30 am - 8:20 am B. 8:30 am C. 8:50 am - 9:50 am D. 10:10 am - 11:10 am E. 11:30 am - 12:45 pm F. 12:45 pm - 2:15 pm	Continental Breakfast Vans leave hotel for CSSV Center Tutorial I: Computational Modeling/Num. Methods Tutorial II: Computer Programming/Sci. Visualization Tutorial III: Computational Science: Tools & Tech. Lunch/Trip to Hampton Roads/Educational Activity
Sunday, May 18	Day of Relaxation / Personal Exploration	
		
Monday, May 19	A. 7:30 am - 8:20 am	Continental Breakfast
Tuesday, May 20	B. 8:30 am	Vans leave hotel for CSSV Center
Wednesday, May 21	C. 8:50 am - 9:50 am	Initial Team Meetings in CSSV Center
Thursday, May 22	D. 10:10 am - 1:00 pm E. 1:00 pm - 2:30 pm F. 2:45 pm - 4:00 pm G. 4:00 pm - 5:30 pm H. 6:00 pm - 7:30 pm I. 7:30 pm - 9:30 pm	Project Exploration/Project Development - Teams Lunch Progress Reports by Individual Teams Project Exploration/Project Development - Teams Dinner Open CSSV Center/Group and Independent Study
Friday, May 23	A. 7:30 am - 8:20 am B. 8:30 am C. 8:50 am - 10:00 am D. 10:00 am - 11:10 am E. 11:30 - 3:00 pm	Continental Breakfast Vans leave hotel for CSSV Center Initial Team Meetings in CSSV Center Preparation for Presentation Final Presentations, Closing Luncheon



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Some Major Categories of Computational (Mathematical) Models/Numerical Methods

Traditional Courses for Studying Computational Models/ Numerical Methods

Courses		Categories					
		Numerics / Sets	Functions/ Matrices	Logic / Logic Diagrams	Counting Techniques	Relations / Graphs	Searching / Sorting Techniques
Discrete Mathematics (Method)							
Calculus		Numerics / Functions	Limits / Continuity	Convergence / Divergence	Root Finding	Differentiation	Integration
Linear Algebra		Matrices / Matrix Algebra	Vectors / Vector Spaces	Transformations	Solving Linear Systems of Equations	Eigenvalues / Eigenvectors	Various Methods for Solving Sys of Equations
Probability and Statistics		Probability (Measure/uncertainties)	Distributions (Behavior/uncertainties)	Confidence Intervals/ Statistical Testing	Random Variables Expected Values	Deterministic Processes	Stochastic Processes
Ordinary Differential Equations (ODEs)		Numerical Methods for Solving First Order ODEs	Numerical Methods for Solving Systems of 1st order ODEs	Numerical Methods for Solving 2nd & higher order ODEs	Numerical Methods for Solving Systems for Solving Systems	Numerical Method for Solving Initial Value ODEs	Numerical Methods for Solving Boundary Value ODEs
Numerical Analysis (Methods)		Solutions of Linear / Non-Linear Equations	Solutions of System of Linear and Non-Linear Equation	Interpolation, Extrapolation and Curve Fitting	Numerical Solutions using Minimization Optimization	Numerical Differentiation and Integration	Numerical Solutions to ODEs and PDEs
Mathematical (Computational) Modeling		Modeling by similarity and proportionality	Optimization Modeling	Simulation and Probabilistic Modeling	Modeling of Dynamical Systems	Modeling with Eqns / Systems of Equations	Modeling with Numerical Methods
Partial Differential Equations		Numerical Methods for Solving First Order PDEs	Numerical Methods for Solving Systems of 1st order PDEs	Numerical Methods for Solving Second and higher order ODEs	Numerical Methods for Solving Systems 2nd & higher order PDEs	Numerical Perturbation Methods for Solving PDEs	Finite Diff./ Finite Elmnt Finite Volume Methods for Solving PDEs
Traditional Computer Science Courses		Computer Science I (Programming)	Computer Science II (Programming)	Data Structures (Programming)	Computer Graphics or Intro. to Computati Sc.- Scientific Vis.	Database Management Files/Report Generatio (Optional)	Software Development (Optional)



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TEAM I



Research Groups- Receiving Certificates

TEAM II



TEAM III



TEAM IV





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Students Working Hard



A Very Busy Team III



Students Listen Intensely
During a Tutorial Session



Team II Presents



Team I Presents





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Summative Participant Evaluation Report

PLEASE RESPOND TO EACH QUESTION BY PLACING "X" ABOVE THE APPROPRIATE NUMBER

1. Did the Institute appear to be well-organized? **3.85**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Superbly organized
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2. Did Institute organizers supply participants with sufficient pre-Institute information? **3.70**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> - More than adequate
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3. Did Institute organizers communicate with participants in a timely manner? **4.00**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Superbly so
---------------	----------	----------	----------	-----------------------
4. Were the tutorials implemented smoothly? **4.05**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Implemented Superbly
---------------	----------	----------	----------	--------------------------------
5. Did most sessions begin and end as scheduled? **4.15**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
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6. Were the breaks and meal hours provided for the length of time scheduled? **4.00**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
---------------	----------	----------	----------	----------
7. Were the physical facilities technologically advanced enough, the environment comfortable enough, and the atmosphere academically conducive enough for an Institute of this nature? **4.10**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
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8. Were the lodging accommodations comfortable? **3.85**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Very Comfortable
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9. Was the arrangement for meals satisfying and enjoyable? **3.70**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Very Much So
---------------	----------	----------	----------	------------------------
10. Were the materials received during the Institute useful and/or appropriate? **4.20**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Very Useful
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11. Were most of the tutorial presenters motivating and/or inspiring? **4.05**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Very Much So
---------------	----------	----------	----------	------------------------
12. Were the tutorial presentations informative and/or beneficial? **4.20**

<u>1</u> (No)	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> -Highly
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Summative Participant Evaluation Report

Continued....

13. Were the tutorial sessions too short, short, the right length, long, or too long? **3.55**
- 1 (too short) 2 3 4 5-too long
14. Did you find the learning of Java and using the USB stick satisfactory? **4.20**
- 1 (No) 2 3 4 5-Highly
15. Did you have enough time to practice/do the tutorial exercises and your research project? **3.75**
- 1 (No) 2 3 4 5-Very Much So
16. Did you use the breaks, meal times, and other times to do networking and exchange ideas? **3.70**
- 1 (No) 2 3 4 5-Very Much So
17. Did you get a clear definition/understanding of computational science – scientific visualization and its usefulness in learning in general and research investigations in the 21st century? **3.80**
- 1 (No) 2 3 4 5-Very Much So
18. Are you now more determined or more inspired to learn more and use the tools and techniques for Computational Science – Scientific visualization in learning in general and in research investigations than before the Institute? **4.00**
- 1 (No) 2 3 4 5-Very Much So
19. Are you now more inspired/determined to earn a graduate degree? **4.20**
- 1 (No) 2 3 4 5-Very Much So
20. Would you recommend this Summer Institute experience in the future for other students? **4.20**
- 1 (No) 2 3 4 5-Very Much So
21. Was the Institute a success? Did it achieve its goals/objectives or meet your expectations? **4.10**
- 1 (No) 2 3 4 5-Very Much So
22. What were the most beneficial aspects of your attending the ECSU – NAM Summer Institute in Computational Science – Scientific Visualization? (See Page 11)
23. What items/ideas/changes would you suggest for improving future ECSU – NAM Institutes in Computational Science – Scientific Visualization? (See Page 11)



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Summative Participant Evaluation Report Continued

22. What were the most beneficial aspects of your attending the ECSU – NAM Institute in Computational Science – Scientific Visualization?

1. Great research experience*
2. Network connections*
3. Learning new programming skills/ JAVA*
4. Traveling and meeting new people*
5. Learning MATLAB, Maple & Mathematica*
6. Very knowledgeable faculty mentors*
7. Experience in designing a webpage*
8. Receiving books at the end*
9. Good preparation for an internship
10. Learning the benefits of group research

23. What items/ideas/changes would you suggest for improving future ECSU – NAM Institutes in Computational Science – Scientific Visualization?

1. More time (longer program)
2. Increase amount of food stipend*
3. Spend more time on research projects*
4. More direction on topic selection*
5. More group social events/activities*

(*) recurring response

ECSU's CSSV Center Supports ECSU's MSEN Program Spring 2008

The mission of the North Carolina Mathematics and Science Education Network (NC-MSEN) Pre-College Program is to broaden the pool of students pursuing mathematics and science based majors and careers. The Pre-College Program actively recruits and prepares students of average to above average ability in grades 6-12 who have not been sufficiently exposed to mathematics and science based courses and careers.

The NC-MSEN Pre-College Program serves students from six counties in Northeastern North Carolina. Students participate in exciting, uplifting, and challenging activities in Mathematics, Science, and Technology through the Saturday Academy and Summer Scholars Programs on the campus of ECSU. A diversified staff of master public school teachers, retired educators, and college professors make up the staff that supplement the weekday educational learning provided in our public schools.

The curricula focus is to conduct academic enrichment experiences in problem solving, mathematics, science, communications, and technology. The Program provides needed guidance and enrichment activities to help students graduate from high school with the sufficient skills and interest to pursue a four-year degree in a mathematics or science based field of study. The MSEN Program was supported in several significant ways by the CSSV Center during the Spring of 2008.



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NAM's "Faculty Conference on Research and Teaching Excellence"

at

Bennett College for Women

Greensboro, North Carolina

April 4 - 5, 2008

Friday, April 4

All activities will be held in the Pfeiffer Science Building, Room 109

1:00 – 1:45 pm

Opening Session:

Dr. Nathaniel Dean, President– National Association of Mathematicians

Welcome: Dr. Nathaniel Dean, President - NAM

Dr. Dawn Lott, Vice President - NAM

Greeting: Dr. Marilyn Mobley, Bennett College, Provost

The Occasion: Dr. Leon C. Woodson, Executive Secretary - NAM

2:00 - 2:45 pm

Johnny Houston, Ph.D., Elizabeth City State University

Computational Science Workshop I

3:00 - 3:45 pm

John Alexander, Ph.D., Miami-Dade College

Computational Science Workshop II

"Computational Science Tools for Selected Topics in Operations Research"

4:00 - 4:45 pm

Amal El Moghraby, Ph.D., Bennett College for Women

"Rossby Wave Parameters Recovered from Chaotic Passive Tracer Trajectories"

5:00 - 6:00 pm

Albert Turner Bharucha-Reid Lecture: Duane Cooper, Ph.D., Morehouse College

"A Report from the Benjamin Banneker Association's "Agenda for Impact"

Summit and the Development of a position on Mathematics Content

Saturday, April 5

9:00 - 9:45 am

Bhamini M.P. Nayar, Ph.D., Morgan State University

"A Characterization of Metacompactness in Terms of Filters"

10:00 - 10:45 am

Roselyn Williams, Ph.D., Florida A&M University

"Elastic Stability of Certain Stiffened Plate Structures"

11:00 - 11:45 pm

Major Anthony Johnson, Ph.D., US Military Academy

"Development of a Three Dimensional Perfectly Matched Layer for Transient Elasto-Dynamic Analyses"

1:00 - 1:45 pm

R. Lee Ponting, Ph.D., Bennett College for Women

"Experience with a College Wide Mathematics Competency Examination and its Transformation into an Electronic Test"

2:00 - 2:45 pm

Gregory Gibson, Ph.D., North Carolina A&T State University

"A Mathematical Model for Sickle Cell Depolymerization: Dynamical Properties and Numerical Experiments"

3:00 - 3:45 pm

Gerald Agbebeba, Ph.D., Johnson C. Smith University

"The Lotto Principle and Random Sequences"



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2008 NAM FACULTY CONFERENCE April 4 - 5, 2008

Participating Faculty and Staff

Dr. Gerald Agbegha, Associate Professor, Johnson C. Smith University, Charlotte, NC
Dr. John W. Alexander Jr., Professor, Miami-Dade College, N. Miami, FL
Dr. Abdirur Ali, Instructor, Shaw University, Raleigh, NC
Dr. Earl Barnes, Chairperson, Morgan State University, Baltimore, MD
Dr. Fred Bowers, Associate Professor, Spelman College, Atlanta, GA
Dr. Farrah Chandler, Associate Professor, Elizabeth City State University, Elizabeth City, NC
Ms. Cynthia Clemmons, Administrative Assistant, Morgan State University, Baltimore, MD
Dr. Duane Cooper, Associate Professor, Morehouse College, Atlanta, GA
Dr. Nathaniel Dean, Professor, Texas State University, San Marcos, TX
Dr. Xiao-Xiong Gan, Associate Professor, Morgan State University, Baltimore, MD
Dr. Gregory Gibson, Assistant Professor, North Carolina A&T State University, Greensboro, NC
Ms. Mary Hawkins, Assistant Professor, Prairie View A&M University, Prairie View, TX
Ms. Lesa Horton, Assistant Professor, University of District of Columbia, Washington, DC
Dr. Johnny Houston, Professor, Elizabeth City State University, Elizabeth City, NC
Dr. Anthony Johnson, Professor, United States Military Academy, West Point, NY
Dr. Rodney Kerby, Lecturer, Morgan State University, Baltimore MD
Dr. Dawn Lott, Associate Professor, Delaware State University, Dover, DE
Dr. Crepin Mahop, Assistant Professor, Howard University, Washington, DC
Dr. Amal El Moghraby, Assistant Professor, Bennett College for Women, Greensboro, NC
Dr. Bhamini M. Nayar, Associate Professor, Morgan State University, Baltimore, MD
Dr. James Nelson, Associate Professor, Shaw University, Raleigh, NC
Dr. Janis Oldham, Associate Professor, North Carolina A&T State University, Greensboro, NC
Dr. Donald Outing, Academy Professor, United States Military Academy, West Point, NY
Dr. Richard Lee Ponting, Chairperson, Bennett College for Women, Greensboro, NC
Dr. Vernise Y. Steadman, Chairperson, University of District of Columbia, Washington, DC
Dr. Barbara Tankersley, Assistant Professor, North Carolina A&T State University, Greensboro, NC
Dr. Ira Walker, Assistant Professor, Hampton University, Hampton, VA
Dr. Roselyn Williams, Associate Professor, Florida A&M University, Tallahassee, FL
Dr. Leon Woodson, Associate Professor, Morgan State University, Baltimore, MD
Mr. Bobby W. Wright, Monroe Community College, Rochester, NY



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Scenes from the NAM Faculty Conference April 4-5, 2008





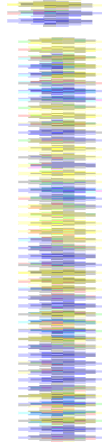
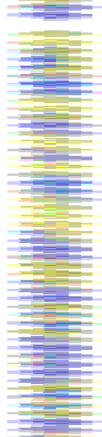
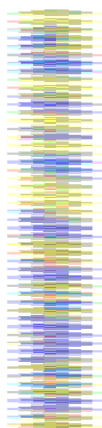
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Scenes from ECSU's MSEN Program Spring 2008



EVENT SPONSORS

Computational Science-Scientific Visualization Center (CSSV Center) - ECSU



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To find more details about other activities associated with ECSU's Computational Science - Scientific Visualization Center and/or activities sponsored by the Center, please visit the URL below:

<http://cssvc.ecsu.edu>
