

Tentative Poster Schedule GRCCERP 2007 based upon the information received as of June 19, 2007
Only the presenters or lead authors are listed

Organized by the Vice-Chair of the 2007 Gordon Research Conference on Chemical Education Research and Practice Tom Greenbowe,
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Monday June 25, 2007 (28 poster presenters)

Conferee Name / Organization

1. JACK BARBERA
UNIVERSITY OF COLORADO
2. AYONI AKINYELE
HOWARD UNIVERSITY
3. KATIE AMARAL
PENN STATE BERKS
4. DANIELLE BARKER
UNIVERSITY OF KANSAS
5. KRISTEN CACCIATORE
UNIVERSITY OF MASSACHUSETTS BOSTON
6. ANTHONY CARPI
CITY UNIVERSITY OF NEW YORK
7. MEGAN GRUNERT
PURDUE UNIVERSITY
8. MARY LEE
ROCKHURST UNIVERSITY
9. MICHELLE DOUSKEY
UNIVERSITY OF CALIFORNIA, BERKELEY
10. LAURIE LANGDON
UNIVERSITY OF COLORADO
11. KAREN KNAUS
UNIVERSITY WISCONSIN, MILWAUKEE
12. MARY O'DONNELL
MIAMI UNIVERSITY

Poster Title

- The Colorado Learning Attitudes about Science Survey:
Modification and Validation for Use in Chemistry
Peer-Led Team Learning: A tool for Academic Reinforcement?
- What teaching teaches: Effects of peer tutoring on tutors
- Analyzing the effectiveness of a web-based math tutorial for
general chemistry
Student learning in the context of incremental change in a general
chemistry laboratory curriculum
Integrating the Practice of Science into Chemical Education
- “I Can’t Do Chemistry” versus “I’m Good at Chemistry”: What
Contributes to the Varying Self-Efficacy Beliefs of Females in
Chemistry
TBA
- An Introductory Course in Chemistry Teaching Pedagogy
- Year 1 of CU's Science Education Initiative
- Cognitive Load Analysis of Tests from the ACS Examinations
Institute
Discovering the Retention Mechanisms of Liquid Chromatography
Using Solid Phase Extraction Cartridges

Monday June 25, 2007

Conferee Name / Organization

13. DAPHNE NORTON
EMORY UNIVERSITY
14. MARGARET SCHOTT
DOMINICAN UNIVERSITY
15. LAURA WALLY
COLORADO STATE UNIVERSITY
16. NINGFENG ZHAO
UNIVERSITY OF MISSOURI, COLUMBIA
17. SHEILA WOODGATE
UNIVERSITY OF AUCKLAND
18. APRIL CORDERO

19. MARY CHRISTIAN-MADDEN
QUINEBAUG VALLEY COMMUNITY COLLEGE
20. RUDOLPH KLUIBER
RUTGERS UNIVERSITY
21. DEBORAH HERRINGTON
GRAND VALLEY STATE UNIVERSITY
22. LUCIUS JOHNSON
UNIVERSITY OF LOUISVILLE
23. SUSAN SUTHEIMER
GREEN MOUNTAIN COLLEGE
24. ANDRI SMITH
QUINNIPIAC UNIVERSITY
25. CAROLE STANFORD
UNIVERSITY OF WESTERN SYDNEY
26. SANTIAGO SANDÍ-UREÑA
CLEMSON UNIVERSITY

Poster Title

- Creation of a Research Community.
- Here to Learn Chemistry? Write On!
- Using Video to Characterize High-School Chemistry Laboratory Learning Environments
- Inquiry-Based Laboratory Instruction by Mini-Journal Format Materials
- BestChoice, an interactive learning system: Supporting learning in large classes
- Comparing First Year Science Majors Survey Responses on Colorado's CLASS-Chem with Interview Data.
- "Scaffolding" Conceptual Understanding Through use of Candy, Cookies, and Snack Items
- Using GenChem to teach General Chemistry Laboratory
- Target Inquiry: Innovative Professional Development for High School Chemistry Teachers
- Formative Assessment in Inquiry-based Elementary Science
- Simplifying Service-Learning for Chemistry Programs
- Research Simulations To Promote Inquiry Learning
- Comparison of expert and novice interpretations of a redox animation
- The effect of cooperative problem-based projects on problem solving skills and performance

Monday June 25, 2007

Conferee Name / Organization

27. MICHELLE RICHARDS-BABB
WEST VIRGINIA UNIVERSITY
28. ALAN SZETO
PURDUE UNIVERSITY

Poster Title

- Effect of Online Homework on Student Attitudes and Grades
- Development of Nanoscale Science and Engineering Concept Inventories

Tuesday June 26, 2007 (25 posters)

Conferee Name / Organization

1. SETH ANTHONY
COLORADO STATE UNIVERSITY
2. LUIS AVILA
COLUMBIA UNIVERSITY
3. CAROL BABYAK
APPALACHIAN STATE UNIVERSITY
4. STEPHANIE CUNNINGHAM
UNIVERSITY OF ILLINOIS AT CHICAGO
5. PATRICK DAUBENMIRE
LOYOLA UNIVERSITY CHICAGO
6. TODD GATLIN
CLEMSON UNIVERSITY
7. CARY KILNER
UNIVERSITY OF NEW HAMPSHIRE
8. KATHRYN LEACH
UNIVERSITY OF ROCHESTER
9. JEANNE PEMBERTON
UNIVERSITY OF ARIZONA
10. KAREN PHILLIPS
HUNTER COLLEGE OF CUNY
11. DIANE NUTBROWN
UNIVERSITY OF WISCONSIN-MADISON
12. DANIEL KING
DREXEL UNIVERSITY
13. LUCILLE GARMON
UNIVERSITY OF WEST GEORGIA
14. LUIS-MIGUEL TREJO
UNAM

Poster Title

- Effects of Refined Introductory Activities and Targeted Model Feedback on Students' Metacognition during MORE Laboratory Instruction
- Design, implementation, and evaluation of a fourth-year course for chemistry majors
- Service-Learning Pedagogy in Environmental Chemistry
- Development of a tutorial instruction method to study student understanding of solutions
- TBA
- TBA
- The Chem-Math Project
- A Research Based Program for Graduate Student Development
- The ACS Guidelines for Approved Undergraduate Chemistry Programs: Soliciting Community Feedback & Answering Questions on the 2007 Draft Version
- A New Twist on the Nylon Rope Trick
- Lessons learned from developing and testing "Fun with Chemistry" camps (or What I did on my summer vacations)
- Do science and engineering students approach chemistry questions differently?
- Using the PLTL Workshop Approach in Physical Chemistry
- Introducing the models of substance and chemical change in high school chemistry.

Tuesday June 26, 2007

Conferee Name / Organization

15. TONY WRIGHT
UNIVERSITY OF QUEENSLAND
16. NATHANIEL GROVE
MIAMI UNIVERSITY
17. DANIEL DOMIN
TENNESSEE STATE UNIVERSITY
18. SONIA UNDERWOOD
CLEMSON UNIVERSITY
19. SAKSRI SUPASORN
CHEMISTRY & BIOCHEMISTRY
20. HANNAH SEVIAN
UNIVERSITY OF MASSACHUSETTS BOSTON
21. MICHAEL SILVEIRA
OUR LADY OF THE LAKE COLLEGE
22. HAIM WEIZMAN
UNIVERSITY OF CALIFORNIA, SAN DIEGO
23. WILLIAM HUNTER
ILLINOIS STATE UNIVERSITY
24. DAVID PARKIN
ADELPHI UNIVERSITY
25. JUSTIN READ
UNIVERSITY OF ADELAIDE

Poster Title

- Student Research in Chemistry: Building a Framework for Senior High School and Junior Undergraduate Investigations
- Change in structure: Understanding student attrition in a spiral organic chemistry curriculum
- Identifying the salient features students use to categorize organic compounds
- Cognitive Load Theory: A Comparison of Conceptual and Algorithmic Problems
- Molecular Organic Extraction Simulation (MOES): The Impact of Students' Understanding and Mental Models
- How scientists' explanations of research improve over time
- Etiology of a research-supportive undergraduate curriculum in forensic science
- What factors govern students' ability to manipulate intramolecular reactions?
- Assessing the Value of Chemistry Research Involvement for Undergraduate Students
- Conversations with Brad: an alternate way of determining our student's presage of their learning/teaching activities
- Enhancing Learning in the Laboratory Environment: Evidence for the ACELL Approach

Wednesday June 27, 2007 (29 Presenters)

Conferee Name / Organization

1. SEVIL AKAYGUN
UNIVERSITY OF NORTHERN COLORADO
2. ROBERT BELFORD
UNIVERSITY OF ARKANSAS AT LITTLE ROCK
3. GAUTAM BHATTACHARYYA
CLEMSON UNIVERSITY
4. ANDREW BLAIR
COLORADO STATE UNIVERSITY
5. BOB BLAKE
TEXAS TECH UNIVERSITY
6. ANDREW BRESSETTE
BERRY COLLEGE
7. RENEE COLE
UNIVERSITY OF CENTRAL MISSOURI
8. JODI DAVENPORT
CARNEGIE MELLON UNIVERSITY
9. JENNIFER DUIS
UNIVERSITY OF NORTHERN COLORADO
10. MICHAEL FAY
MIAMI UNIVERSITY
11. ALMA GONZALES
CLEMSON UNIVERSITY
12. EILEEN KOWALSKI
UNITED STATES MILITARY ACADEMY

Poster Title

- TBA
- Wiki Hyperglossary Generating Program
- What do organic chemistry graduate students learn during the research phase of the Ph.D.?
- Investigating Aspects of a MORE Laboratory Module that Facilitate Understanding the Molecular-Level Behavior of Gold Nanoparticle Colloids
- Relative support for chemical education research
- SALG as an assessment of student centered learning
- Assessing the impact of visualization on the undergraduate chemistry curriculum
- Chemical equilibrium: an evaluation of a new type of instruction.
- Undergraduate Organic Chemistry Students' Chemistry Conceptions
- Mapping the dimensions of the undergraduate chemistry laboratory: Faculty perspectives on curriculum, pedagogy, and assessment
- TBA
- Cognitive Learning in Introductory College Science Education

Wednesday June 27, 2007

Conferee Name / Organization

13. REBECCA KRUSE
SOUTHEASTERN LOUISIANA UNIVERSITY
14. KIMBERLY LANE
UNIVERSITY OF NORTH CAROLINA
15. DAWN RICKEY
COLORADO STATE UNIVERSITY
16. MICHAEL SANGER
MTSU
17. RICHARD MOOG
FRANKLIN AND MARSHALL COLLEGE
18. JEFFREY PARADIS
CALIFORNIA STATE UNIVERISTY SACRAMENTO
19. ARLENE RUSSELL
UCLA
20. DIANE M. BUNCE & JESSICA VANDENPLAS
THE CATHOLIC UNIVERSITY OF AMERICA
21. MICHAEL ABRAHAM
UNIVERSITY OF OKLAHOMA
22. DANIEL LIBBY
MORAVIAN COLLEGE
23. JOEL RUSSELL
OAKLAND UNIVERSITY
24. DONALD WINK
UNIVERSITY OF ILLINOIS AT CHICAGO
25. ELLEN YEZIERSKI
GRAND VALLEY STATE UNIVERSITY

Poster Title

- Physical Science and Everyday Things
- Seeding Postdoctoral Innovators in Research and Education (SPIRE): A Multi-Dimensional Approach to Postdoctoral Professional Development
- Effects of Refined Introductory Activities and Targeted Model Feedback on Students' Metacognition during MORE Laboratory Instruction
- Evaluating Validity Threats of a Particulate Multiple-Choice Gas Question
- The POGIL Project
- Bridging the Macroscopic, Sub-microscopic and Symbolic: Hands on Activities to Help Students Learn Chemistry
- Preparing a primary standard solution: Understanding the interplay of experimental design, accuracy and precision
- Evaluating the effectiveness of POGIL on student achievement and process skill development in general chemistry
- The MoLEs Project (molecular level experiments)
- Correlation vs. Explanation and Stability vs. Relative Energy
- A Laboratory-Based Interdisciplinary Science Course for Elementary Education Majors
- Bringing Chemistry in the Community to a High School Transformation Project
- Target Inquiry: Innovative Professional Development for High School Chemistry Teachers

Wednesday June 27, 2007

Conferee Name / Organization

26. JERRY SUITS
UNIVERSITY OF NORTHERN COLORADO
27. VICKIE WILLIAMSON
TEXAS A & M
28. SUSAN WIEDIGER
SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE
29. THOMAS GREENBOWE
IOWA STATE UNIVERSITY

Poster Title

- Achievement Styles of General Chemistry Students
- TBA
- Chemistry Learning In Progress: “Watching” students work with complex data sets
- Using the Science Writing Heuristic in the Organic Chemistry Laboratory