City Tech
Eighth Annual
POSTER SESSION
of Faculty and Student Research and Faculty Publications Exhibit

Thursday, November 18, 2010
Klitgord Gym
1 pm - 3 pm
Organizing Committee

Roman Kezerashvili –chair
Candido Cabo
Bronwen Densmore
Boris Gelman
Aida Egues
Delaram Kahrobaei
Giovanni Ossola
Alexander Rozenblyum
Hans Schoutens
Stephen Soiffer
Program of Poster Session

Welcome and Greetings
1:30 pm-1:50 pm  Dr. Russell Hotzler, President
                    Dr. Bonne August, Provost
                    Sonja Jackson, Dean of Curriculum and Instruction
                    Dr. Pamela Brown, Dean of School of Arts and Sciences
                    Barbara Grumet, Esq., Dean of the School of Professional Studies

The program is organized by topics rather than by departments. Frequently
the presentations are cross-disciplinary or difficult to assign to the discipline
represented by the department with which the presenter is affiliated.

Architectural and Graphic Arts Technology
2. Jason Montgomery, Learning Community ARCH 1100 + 1140: From Text to
   Drawing and Back Again.
3. Barbara Smith Mishara, Yorkville: A Survey Of Historic Resources A Service
   Learning Project.
4. Illya Azaroff, Designing for Disaster: Deployable Disaster Relief Structures.
5. Lloyd Carr, Realistic Color Output Expectations in Print and Non-Print
   Media.

Biology and Health Sciences
6. Walied Sammarai, Modeling and Simulation of Cellular Transport Mechanism
   as a Game.
7. Armando D. Solis, Maximizing Data Use in Folding Potentials for Protein
   Structure Prediction.
8. Liana Tsenova, Urmia Ghosh-Dastidar, Multi Drug Resistance and
   Nosocomial Infections in Brooklyn, NY.
   Analysis of Hudson River and Gowanus Canal.
    John, Activins A and B Regulate Oligodendrocyte Differentiation and Myelin
    Formation.
11. Laina Karthikeyan, Gladys Alexander, Inhibition of Glutamate Dehydrogenase
    in the Brain and Degeneration of Dopamine Neurons.
12. Fathiya M. Ajab, Ralph Alcendor, Walied Sammarai, M Rahmatullah, Majeedul
    H Chowdhury, Antiprotozoal Effect of Acacia nilotica in a Tetrahymena
    thermophila Model.
14. Tatiana Voza, Malaria Parasites Develop in the Skin.
15. Ralph Alcendor, Searching for Sirtuins in *Tetrahymena Thermophila*.
16. Zoya Vinokur, Mary Abdelshahid, Deane Centeno, Marjorie Lors, Yakov Tomer, Mammography- Be in the Know?
18. Kara Pasner, Vision Care Technology Alternate Utilizations of Prosthetic Contact Lenses.
19. Aida L. Egues, Experiences of Mentoring Influences on the Personal and Professional Growth of Hispanic Registered Nurses.
23. Kathryn Richardson, Pearline Okumakpeyi, Ellen McGuinn, Li-May Li, Fully Implementing a Computer-based Testing Solution - ParSYSTEM - for the Nursing Department Exams.
26. Sondra A. Rivera, Methodology of the Student Nurse-Patient Simulation: Collaborative Learning.
27. Marilyn Cortell, Susan Davide, Dental Hygiene Knowledge and Attitudes Toward HIV.
28. Sondra A. Rivera, Michelle (Cafaro) Gellar, Simulation in Nursing: Progress in Motion.

**Business**

30. Lucas Bernard, Securitization in Commodity (and other) Markets: The Seeds of the Next Bubble?
32. Patrick O’Halloran, Mortgage Tips for First Time Home Buyers.
Chemistry

Computer Science and Engineering Technology
35. Marcos S. Pinto, Run Your Own Cloud (Computing).
36. Xiangdong Li, Study on Universal Architecture for Quantum Computer.
38. Amadou Toure and Candido Cabo, Propagation of Cardiac Waves in Heterogeneous Cellular Structures.
40. Reneta D. Lansiquot, Candido Cabo, Writing Narratives, Programming Prototypes: Promoting General Problem-solving Abilities.
41. Iem Heng, Gabriel Bencosme, Valeriy Ignatov, Better than Wii Controller, Our Customized Design Wireless Controller Able to Control Robotic Mobility, Arm and Gripper.
43. Rashid Zaidi, Aparicio Carranza, Next Generation Wireless Technologies.
44. Maria Vanegas, Aparicio Carranza, Virtualization and Networking Using the Kernel Virtual Machine Hypervisor.
46. Farrukh Zia, Jennifer Broutin, Carmen Trudell, Personal Power Plant.
47. Croline Barroscastro, Malek Brahimi, Effect of Speed on Tensile Properties for Plastic Material.
49. Djafar K. Mynbaev, Project-Based Approach to Teaching Theory in Engineering-Technology Courses.

Hospitality
51. Elizabeth Schaible, Gathering at the Table: The Restaurant Family Meal.
52. Karen Goodlad, Students Teaching Students: Reinforcing Beneficial Learning Strategies in Dining Room Operation.
Humanities

53. Frank Masiello, Cinematic Storytelling.
54. Mary Nilles, Moving Home: The Luxembourger Immigrant Journey from New York City to the Midwest.
59. Hugh McDonald, Creative Actualization.

Library


Mathematics

63. Lin Zhou, Mathematical Modeling of Unusual Fluids.
64. Marianna Bonanome, Quantum Algorithms for Fixed Points and Invariant Subgroups.
65. Laura Ghezzi, A Generalization of the Strong Castelnuovo Lemma.
66. Hans Schoutens, Space, the Final Frontier: Schemes and Motives.
67. Samar ElHitti, Defect: An imperfection that impairs Local Monomialization.
69. Andrew Douglas, Embeddings of the Euclidean Algebra e(3) into Simple Lie Algebras and Restrictions of Irreducible Representations.
70. Michael Munn, Volume Growth and the Topology of Gromov Hausdorff Limits.
72. Huseyin Yuce, Perturbation Methods for Moderately Elliptical Plates with a Core.
73. Zhao Chen, Parallel Computation with Matrices.
Physics

75. Justin Vazquez Poritz, Colorful Black Holes.
76. Boris Gelman, Helium Burning and Effective Field Theory.
77. Giovanni Ossola, SAMURAI – Scattering AMplitudes from Unitarity-based Reduction Algorithm at the Integrand-level.
80. Thinh Le, Lufeng Leng, Greg Matloff, Optical Transmission of an Allende Meteorite Thin Section and Simulated Regolith.
81. Andrea Ferroglia, Top-Quark Pair Production at Hadron Colliders.
82. Oleg Berman, Graphene-based and Superconducting Photonic Crystals.
85. Roman Kezerashvili, Can We Move Photons?
City Tech Poster Session features the results of the research of faculty and students. The Poster Session has become a tradition at the College to highlight the research achievements of our faculty and students. Each year our Poster Sessions have grown and become more interesting and successful. This year we have 85 presentations of faculty and student research.

The Poster Session is generously supported by
The New York City College of Technology Foundation
and
School of Arts and Sciences