



New York City
College of Technology
The City University of New York

PROGRAM

**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

1. Jill Bouratoglou, Lia Dikigoropoulou, On-line Design.
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 Samarra, 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, Urmi Ghosh-Dastidar, Multi Drug Resistance and Nosocomial Infections in Brooklyn, NY.
9. Liana Tsenova, Urmi Ghosh-Dastidar, Bio-Math Mapping: Water Quality Analysis of Hudson River and Gowanus Canal.
10. Andleeb Zameer, Y. Zhang, A.T. Argaw, B.T. Gurfein, S. Mahase, and G.R. 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 Samarra, M Rahmatullah, Majeedul H Chowdhury, Antiprotozoal Effect of *Acacia nilotica* in a *Tetrahymena thermophila* Model.

13. Rachele Arrigoni Restrepo, Maria Ter Mikaelian, Learning Through Serving: A Brooklyn Based Project.
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?
17. Lois N. Dreyer, Oral Psoriasis.
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.
20. Elaine Leinung, Mary Frances Mc Gibbon, Personal Narratives from Family Members of Deceased Victims of the World Trade Center Disaster. A Qualitative Research Study in Progress.
21. Anty Lam, Oral Health of Children in Rural Area of the Philippines.
22. Maria-Elena Bilello, Susan Nilsen-Kupsch, A Pilot Study Investigating Awareness of Oral Cancer Screenings and Prevalence of Oral Lesions in the Diverse Patient Population at NYCCT's Dental Hygiene Clinic.
23. Kathryn Richardson, Pearlina Okumakpeyi, Ellen McGuinn, Li-May Li, Fully Implementing a Computer-based Testing Solution - ParSYSTEM - for the Nursing Department Exams.
24. Anthony DeVito, Radiofrequency Ablation for Cancer.
25. Diana Samaroo, Faith Dickerson, Donald D. Kasarda, Peter H.R. Green, Chiara Briani, Robert H. Yolken and Armin Alaedini, Novel Immune Response to Gluten in Individuals with Schizophrenia.
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

29. Timothy W. Reinig, Three Case Studies in Customer Relationship Management: Building Customer Value, Satisfaction and Loyalty.
30. Lucas Bernard, Securitization in Commodity (and other) Markets: The Seeds of the Next Bubble?
31. Carlos Ortiz, Charles A. Stone, Anne Zissu, Securitization of Financial Asset/ Liability Products with Longevity Risk: The Example of Senior Life Settlements.
32. Patrick O'Halloran, Mortgage Tips for First Time Home Buyers.

Chemistry

33. Peter Spellane, Robin Michals, Chemical Manufacturing and Petroleum Refining Industries of the Newtown Creek: 19th Chemical Technology and 21st Century Urban Photography.
34. Jay Deiner, Ink Optimization for Digital Fabrication of Solid Oxide Fuel Cells.

Computer Science and Engineering Technology

35. Marcos S. Pinto, Run Your Own Cloud (Computing).
36. Xiangdong Li, Study on Universal Architecture for Quantum Computer.
37. Tatiana Malyuta, An Evolving Integrated DataSpace on the Cloud Computer Systems Technology.
38. Amadou Toure and Candido Cabo, Propagation of Cardiac Waves in Heterogeneous Cellular Structures.
39. Yu Wang, Formal Methods for Real Time System.
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.
42. Iem Heng, Mark Nelson, Steve Peters, Phillip Mark, ASEE Robotic Competition: Baseball Bot.
43. Rashid Zaidi, Aparicio Carranza, Next Generation Wireless Technologies.
44. Maria Vanegas, Aparicio Carranza, Virtualization and Networking Using the Kernel Virtual Machine Hypervisor.
45. Alberto Aponte, Harrison Carranza, Lego Java Operating Systems for Robot Programming.
46. Farrukh Zia, Jennifer Broutin, Carmen Trudell, Personal Power Plant.
47. Croline Barroscastro, Malek Brahimi, Effect of Speed on Tensile Properties for Plastic Material.
48. Marantz, Zory, Energy Efficient Wireless Data Communication.
49. Djafar K. Mynbaev, Project-Based Approach to Teaching Theory in Engineering-Technology Courses.

Hospitality

50. Marilyn-Joy Macuha, The Relationship between Hospitality and Health.
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.
55. Jane Mushabac, "Good News" Poems from English 1141: Creative Writing.
56. Jody R. Rosen, Vacillation and Mixture: Depicting Genders.
57. Lisa Pope Fischer, Turkey Backbones and Chicken Gizzards: Women's Roles and the Making of a Soup King in Post Socialist Hungary.
58. Tshombe Walker, The Trickster Ethic and Black Agency.
59. Hugh McDonald, Creative Actualization.

Library

60. Lynda Dias, High-Impact Practices: Academic Service Learning at City Tech.
61. Monica Berger, Open Access Scholarly Journal Publishing with Open Journal Systems.
62. Tess Tobin, Latinos Entering the Library Profession: A Post LIS Graduation Study.

Mathematics

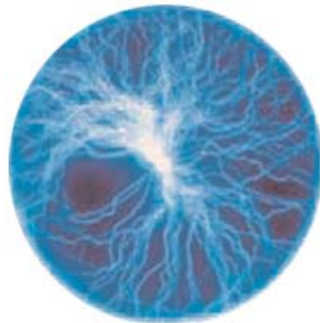
63. Lin Zhou, Mathematical Modeling of Unusual Fluids.
64. Marianna Bonanome, Quantum Algorithms for Fixed Points and Invariant Subgroups.
65. Laura Ghezzi, A Generalization of the Strong Castelnuovo Lemma.
66. Hans Schoutens, Space, the Final Frontier: Schemes and Motives.
67. Samar ElHitti, Defect: An imperfection that impairs Local Monomialization.
68. Maggie Habeeb, Delaram Kahrobaei, Vladimir Shpilrain, A Key Exchange Based on Semidirect Product and Free Metabelian Groups.
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.
71. Amesha Husband, Delaram Kahrobaei, Dan Sadatian, Philip Ajsogun, Complexity of Finding Matrix Representation in Polycyclic Groups.
72. Huseyin Yuce, Perturbation Methods for Moderately Elliptical Plates with a Core.
73. Zhao Chen, Parallel Computation with Matrices.
74. George Klimi, Joel Greenstein, Estimation of the Power of Impact of Barringer Meteorite and of the Power of Tunguska Meteor Air Burst.

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.
78. Vladimir S. Boyko, On the Inverse-grain Size Effect of Deformation Twinning in Nanocrystalline Materials.
79. Ariyeh Maller, Warm Halo Clouds Around the Milky Way.
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.
83. Ariam Geffrard and Vladimir S. Boyko, The Leaning Pisa Tower Equilibrium Problem.
84. M. Faryniarz, S. Lora, A. Nair, D. Persico, S. Ponticel, C. K. Rosias, S. Sadatian, Y. L. Yung, O.L. Berman, G.V. Kolmakov, Bose-Einstein Condensation of Excitons in a Semiconductor Quantum Well: Theory and Simulations.
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



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