

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

PROGRAM

City Tech
Sixth Annual

POSTER
SESSION

of Faculty
&
Student Research

Thursday, November 13, 2008

Atrium First Floor
Faculty and Student Presentations
1 pm - 4 pm

Organizing Committee

Roman Kezerashvili, chair

Renata Budny

Candido Cabo

Aparicio Carranza

Boris Gelman

Victoria Gitman

Camille Goodison

Daniela Viviana Vladutescu

Zongmin Li

Keith Muchowski

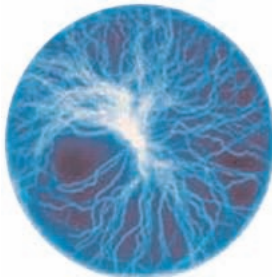
Alexander Rozenblyum

Elizabeth Schaible

Hans Schoutens

Avis Smith

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
Robin Bargar, Dean of School of Technology and Design
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.

Architecture

1. Dale Laurin and Anthony Romeo, Architecture and You.
2. Carmen Trudell and Sanjive Vaidya, Green Architecture.
3. Carmen Trudell and Farrukh Zia, Energy Harvesting.

Biological Sciences

4. Liana Tsenova, Immunomodulation with CC-3052 Accelerates Antibiotics Efficacy in Experimental M. Tuberculosis Infection.
5. Maria Ter-Mikaelian, Temporal Processing of Vocalizations in the Auditory Cortex of the Gerbil.
6. Laina Karthikeyan, Manpreet Singh and Steve Lipson, Antiviral Effects on Rotavirus by Cranberry and Grape Juices.
7. Ralph Alcendor, Silent Information Regulator 1 (Sirt1) Protects Cardiac Myocytes from Cell Death.
8. Majeedul Chowdhury, Effect of Osteoblast on Bone Resorption by Osteoclast in a Co-Culture Model.
9. Zongmin Li, Cytotoxicity of Heavy Metal Cadmium Is Associated with Cyclooxygenase-2 Up-regulation in Mouse Neuronal Cells.
10. N. Haque, A. Sheikh, M. Malik, X. Yan, G. Merz, N. S. Haque, Studies on the Effect of Garlic Extract on Human Neuroblastoma SY5Y Cells: Oxidative Stress and Neuroinflammation.
11. Joseph C. Obunike, Lipoprotein Lipase-Mediated Uptake and Degradation of Low Density Lipoproteins by Fibroblasts and Macrophages.
12. Renee Clarke, Kashif Hoyte and Javier Joya (Mentor: Reggie Blake), Mexican Megafauna.

Chemistry

13. Willard Joseph, Tony Nicolas, and Peter Spellane, New Synthetic Organic Chemistry to Support Preparation of Light-Driven Energy Storage Systems.
14. Suresh Tewani and Neha Grewal, Effect of Microwave Power on the Acrylamide Formation.

Computer Systems and Engineering Technology

15. Adewale Adesanya, Sensor Applications Using a Basic Stamp Microcontroller and Wireless Interface Circuitry.
16. Xiangdong Li, Study of an Improved Architecture of a Quantum Computer.
17. Candido Cabo, Initiation of Reentrant Tachycardia in Infarcted Hearts.
18. Douglas Moody, Achieving Better Schedules by Employing Tiling during Initial Neighborhood Formation.
19. Iem Heng and Mark Nelson, Robotic and Real Time Graphical Simulation.
20. Marcos Pinto, Campus Networks QoS - Cost Issues Analysis.
21. Rathika Rajaravivarma and Farrukh Zia, Overview of Wireless Communication Technologies.
22. Albert Delacruz, Printed Circuit Board (PC) Manufacturing Process.
23. Aparicio Carranza and Mohammed Islam, Robotics Technology Application: Curiosity Unfolded.

Engineering Technology

24. Gaffar Gailani, Experimental Determination of the Permeability of the Lacunar-Canalicular Porosity.
25. Ercan Sevkat, Low Velocity Impact Response of Glass-Graphite Fiber Toughened Epoxy Composites.
26. Daniela Viviana Vladutescu, Lower Troposphere Water Vapor and Aerosol Hygroscopicity Measurements Using Raman Lidar, GPS and Radiosondes.

English

27. George Guida, New York and Other Lovers: A Poet's City Life.
28. Monica Berger, Critical Thinking Is a Life Relevancy: Reframing Library Instruction for Hospitality Management Freshmen.
29. Mary Nilles, The Homes They Left Behind.

30. Jane Mushabac, *The Hundred Year Old Man*.
31. Jody R. Rosen, Deviation and Acceleration: Time in the Story and Narrative of Virginia Woolf's *Orlando*.
32. Lubie Alatraste, Where Does Freshman ESL Writing Come From?

Health Sciences

33. Kathleen Falk, Improving Education for Diabetics with Low Health Care Literacy.
34. Aida L. Egues, The Relationship Between the Quality of Mentoring Experienced by Hispanic RN's and Their Level of Nursing Practice.
35. Anthony DeVito, The History of Radiology.
36. Zoya Vinokur and Denis McCarthy, X-ray Visions Interpretations of Internal Anatomy.
37. Mary Frances McGibbon, A Correlational Study of Family Stress and Adaptation Among the Surviving Parents of the New York City Firemen Who Perished in the World Trade Center Disaster.
38. Elaine Leinung, Teens Educated about Asthma Management.
39. Renata Budny, Indirect Composite Resin – Comparison of Materials on the Market, and Simple vs. Multilayered Build up Techniques.
40. Kaoru Yamaki, (Mentors: Renata Budny and Avis Smith), Maxillofacial Prostheses: Implant Supported Nose Reconstruction.
41. Rocio German, (Mentor: Renata Budny) Micro-Ceramic Indirect Composite Resin Veneers.
42. Milos Marcovic and Oscar Galvis (Mentor: Renata Budny), Esthetical Aspects of All-Ceramic and PFM Restorations.
43. Anty Lam, Increase in Utilization of Dental Sealants.
44. Joycelyn Dillon, A Study on Utilization of Dental Hygiene Services by Older Adults.

Hospitality Management

45. Claire Stewart, Testing Recipes for a Cookbook.
46. Patrick O'Halloran, Credit Card Debt, What You Should Know.
47. Renata Kenigstein, Around the World in Ninety Days...On a Budget.
48. Karen Goodlad, Dynamics of the American Wine Industry: A 75 Year Perspective.
49. Elizabeth Schaible, Teaching Students to Use their Wits and Whisks through Culinary Improvisation: Case Study in the Scholarship of Teaching and Learning.
50. Louise Hoffman, Art and Pastry Collide.

Humanities, Psychology and Social Sciences

51. Howard Sisco, Effect of Item Level Social Desirability on Factor Structure Stability.
52. Eric Rodriguez, The Role of Religion and Spirituality in the Lives of Gays, Lesbians and Bisexuals.
53. Jamee K. Moudud and Karl Botchway, The Search for a New Developmental State.
54. Leonard L. Rosenbaum and William B. Rosenbaum, The Significant Erosion in Semantic Differential Ratings of Political Concepts in 2006 Compared to 1976.
55. Daniel Capruso, Two- versus Three-Dimensional Block Construction: Relationship to Spatial Vision and Locus of Cerebrovascular Lesion.
56. Jean E. Kubeck and Howard Sisco, Human Subjects Research - What YOU Need to Know.
57. Marissa J. Moran, Totem Law.
58. Martin Garfinkle, Taming the Black Dog: Insights into Winston Churchill's Depression and Its Meaning to People Who Suffer From Depression.

Mathematics

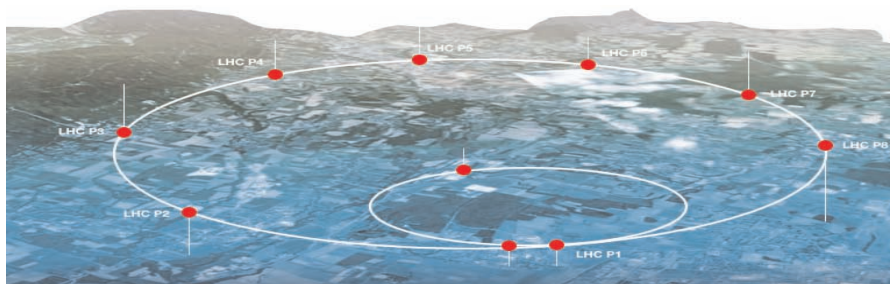
59. Andrew Douglas and Delaram Kahrobaei, On Residual Solvability of One-Relator Groups.
60. Franklin Fung, Sereta Scott (Mentor: Delaram Kahrobaei), Digital Signatures.
61. Samar El Hitti, Algebraic Resolution of Formal Ideals along a Valuation.
62. Marianna Bonanome, Applications of Quantum Algorithms to the Study of Permutations and Group Automorphisms.
63. Holly Carley, The Strong Coupling Limit of a Particle Harmonic Oscillator Interaction.
64. Michael Munn, Volume Growth and the Topology of Manifolds with Nonnegative Ricci Curvature.
65. Victoria Gitman and Thomas Johnstone, The Large Cardinal Hierarchy.
66. Elisa Elshamy and Victoria Gitman, Theoretical Computation and Practical Computers.
67. Thomas Tradler, String Topology and Topological Conformal Field Theory.
68. Hans Schoutens, Why 2 is Also Equal to $1+2/3+1/3$: Motivic Multiplicities.

69. Huseyin Yuce, Inverse Probability Weighted Random Effect Models for Estimation of Censored Outcomes Variables.
70. Laura Ghezzi, Minimal Free Resolutions of Points.
71. Jonas Reitz, Pointwise Definable Models of Set Theory.
72. Andrew Douglas, Lie-Yamaguti Structures on the $SL(3)$ -modules $V(n,n)$.

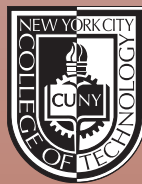
Physics

73. Gregory Matloff and Monika Wilga, NEOs as Stepping Stones to Mars.
74. Vladimir S. Boyko, Dislocation Description of Twins in Advanced Materials.
75. Giovanni Ossola, New Computational Methods for the Large Hadron Collider.
76. Boris Gelman, Effective Field Theory for Triple Alpha Fusion.
77. Sheng-kun Zhang, Quantum Well and Quantum Dot Intraband Infrared Photodetectors.
78. Oleg Berman, Superfluidity of Magnetoexcitons and Magnetobiexcitons in Graphene Layered Structures.
79. Justin Vazquez-Poritz, A Holographic Approach for Studying the Behavior of Quarks in a Quark-Gluon Plasma.
80. Lufeng Leng and Thinh Le, An All-Optical Upstream Carrier Generation Scheme for Optical Network Unit Using a Brillouin/Erbium Fiber Laser.
81. Adam Atia and Ibrahim Siddo (Mentors: Vernon Morris and Reggie Blake), Trans-Atlantic Transport of Saharan Dust Aerosol.
82. Jian Hong Li, (Mentor: Reggie Blake), The Use of MatLab to Process Satellite Remote Sensing Data of Sea Ice.
83. Lori Younge (Mentors: Alexander Gilerson and Reggie Blake), Chlorophyll Fluorescence from MERIS Data for U.S. West Coast.
84. Shalva Tsiklauri, Four-Electron Quantum Dot Molecule in a Magnetic Field.
85. Ariyeh Maller, The Intrinsic Properties of SDSS Galaxies.

The Library Faculty Team will have a special display: Partners in Scholarship, Teaching, and Pedagogy



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.



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