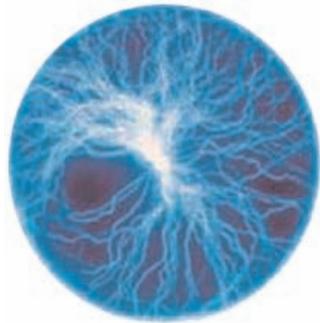


City Tech Poster Session features the results of the research of faculty and students. The Poster Session has become a tradition at the College to highlight the research achievements of our faculty and students. Each year our Poster Sessions have grown and become more interesting and successful. This year we have 81 presentations of faculty and student research.



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



NEW YORK CITY COLLEGE OF TECHNOLOGY
THE CITY UNIVERSITY OF NEW YORK
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New York City
College of Technology
The City University of New York

PROGRAM

City Tech Seventh Annual

POSTER SESSION

of Faculty
and Student Research
and
Faculty Publications Exhibit

Thursday, November 19, 2009
Klitgord Gym
1 pm - 3 pm

Organizing Committee

Roman Kezerashvili – chair

Renata Budny

Candido Cabo

Boris Gelman

Sunghoon Jang

Delaram Kahrobaei

Keith Muchowski

Giovanni Ossola

Marcos Pinto,

Alexander Rozenblyum

Elizabeth Schaible

Avis Smith

Stephen Soiffer



68. Andrew Douglas - Nonunitary, indecomposable representations of the Euclidean algebra $e(3)$.
69. Marianna Bonanome - The Existence of Uncountably Many Non-Isomorphic 3-Solvable Groups.
70. Huseyin Yuce - On the Fundamental Frequencies of Elliptical Plates.

Physics

71. Gregory L. Matloff - Solar Photon Sail Deceleration at Alpha Centauri A
72. Gjergj Klimi, Kelsey Rauber, Sinem Cakir-Moore - Earthquakes and the Underground Nuclear Tests.
73. Giovanni Ossola - Computational Methods for the LHC.
74. Vladimir Boyko - Twinning in Nanocrystals.
75. Gary Mai, Lucas Salzwedel, Oleg Berman - Discovery of Graphene.
76. Boris Gelman - Stellar Nucleosynthesis and Effective Field Theory.
77. Justin Vazquez-Poritz - The Holographic Approach to Quantum Field Theory.
78. Oleg Berman - Coherence of Polaritons in Two-Dimensional Structures.
79. Ruben Neira (Mentors: Marouane Temimi, Pradipat Sukumal, Reginald Blake) - Use of Satellite Images for Surface Conditions Monitoring in the Upper Mississippi Watershed During the Flood Event of 2008.
80. Ryan Jaipaul (Mentors: Fred Moshary, Miguel Bustamante, Reginald Blake) - Monitoring the Progression of the Northeast MFRSR Network Using the NASA-GISS Calibration Algorithm to Obtain Aerosol Products.
81. Alma Cabral Reynoso (Mentors: Nir Krakauer, Reginald Blake) - Variability of Worldwide Cloud Cover.



Education

50. **Joan Schwartz** - The Web and the Spider: Engaging Out-of-School Males in Learning.
51. **Richard Wanliss** - Working Drawings.
52. **Maura Smale** - The Scholarly Habits of Undergraduate Students at City Tech: Preliminary Results.
53. **Marcos Pinto** - Using Topic Map to Create an E-Learning Environment: The Topic of OSI Model Map.

Engineering Technology

54. **Xiaoqian Pan** - Developing an Algorithm to Investigate Cloud Lifetime Using GOES Thermal Channel Information.
55. **Djafar Mynbaev** - Modern Photonics and Optical Communications.
56. **Sunghoon Jang** - Introduction to Glucose Sensing Polarimetry System.
57. **Malek Brahimi** - The Use of Stochastic Models to Measure Damage Potential in Acceleration Time Series.

English

58. **Mary Nilles** - Drawing Home: The Evolution of a Rural Midwestern Luxembourger Culture, 1855-2010.
59. **Lubie Grujicic-Alatriste** - The Impact of Topic Discussion on The Writing Process.

Entertainment Technology

60. **David Rios** - The Ardy-MIDI Machine Alchemation.
61. **David Smith** - Virtual Orchestra and Integration with Live Performance Ensembles.

Mathematics

62. **Laura Ghezzi** - Hilbert coefficients in local rings.
63. **Samar ElHitti, Artin-Schreier** - Extensions, Dependent or Independent?
64. **Thomas Tradler** - Combinatorics of Associahedra and Pairahedra.
65. **Lin Zhou** - Complete Transmission through a Periodically Perforated Rigid Slab.
66. **Delaram Kahrobaei** - Growth Rate of an Endomorphism of a Group.
67. **Elisa Elshamy, Victoria Gitman (mentor)** - How To Think About Algorithms in Theory and Practice.

Program of Poster Session

Welcome and Greetings

1:30 pm-1:50 pm Dr. Russell Hotzler, President
Dr. Bonne August, Provost
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.

Architectural and Graphic Arts Technology

1. **Carmen Trudell, Jennifer Broutin, Sylvia Portilla, Carlos Limongi, Phillip Morgan** - Urban Agriculture: The Future of Food Production in Cities.
2. **Anthony Romeo and Dale Laurin** - Architecture and You.
3. **Lloyd Carr** - The Magic of Color Management Revealed: How to Get What You Expect in CMYK Color Printing.

Biology

4. **Sanjae Hall** - Impact of Climate Change on Mammals of Nova Scotia.
5. **Maria Ter-Mikaelian** - Processing of Spectrally Disrupted Communication Sounds in Primary Auditory Cortex.
6. **Armando D. Solis** - Decoding Protein Sequences: An Ongoing Bioinformatic Investigation.
7. **Tatiana Voza** - Mosquitoes inject less malaria parasites in the skin of immunized mice.
8. **Laina Karthikeyan, Steve Lipson** - Effect of Grape and Cranberry Juices on Monolayer Cultures of Rotavirus-Infected Monkey Kidney Epithelial Cells.

Business

9. **Lucas Bernard** - Dynamic Decisions, Diversification, and Leveraged Business Strategies.
10. **Anne Zissu** - Delta Hedging IO Securities Backed by Senior Life Settlements.
11. **Timothy Reinig** - Building Web Site Traffic Through Online Promotions: An Examination of the Legal and Regulatory Parameters of Online Sweepstakes.
12. **Timothy Reinig** - Contract Basics: A Primer.

Chemistry

13. **Renee Clarke** - Investigation of the Changes in Surface Energy during Microcontact Printing.
14. **Noelixa Ortiz, Jean-Patrick Jerome, Peter Spellane and David Grills** - Preparation of Orthometallated Rhenium Carbonyl Compounds for Possible Use in the Photocatalytic Reduction of Carbon Dioxide to Carbon Monoxide.
15. **Diana Samaroo, Naphtali O'Connor, Nathan Stevens, Marissa Solomon, Angel Martí, Joanne Dyer, Harshad Vishwasrao, Daniel Akins, Eric Kandel, Nicholas Turro** - A Covalently Linked Phenanthridine–Ruthenium(II) Complex as a RNA Probe.

Computer Engineering Technology

16. **Jodi-Ann Young, Christopher M. Frenz** - Automated Extraction of Health Resource URLs from Biomedical Abstracts.
17. **Amadou Toure and Candido Cabo** - Effect of Cell Size on Conduction of Cardiac Waves.
18. **Harrison Carranza, Jorge Martinez, Aparicio Carranza** - Cloud Computing and Virtualization.
19. **Babatun Awoseso, Yu Wang, Aparicio Carranza** - Data Communications Over Fiber Optic Link.
20. **Albert De La Cruz** - Management of Virtual Systems.
21. **Rathika Rajaravivarma** - Enabling Mobile Networks.
22. **Iem Heng, Sandor Bocz, Michael Hernandez, David Ruffins** - Equilibrium

Health Sciences

23. **Patricia Cholewka** - Integrating Wireless Technology into the Nursing Curriculum in a Clinical Simulation Laboratory.
24. **Gwen Cohen Brown** - Common Oral Lesions: Differential Diagnosis and Treatment.
25. **Kara Pasner** - Safe Specs: The effects of UV Radiation on Eyes.
26. **Renata Budny** - Comparison Shopping: Seven Major Indirect Composite Resin Systems.
27. **Helen Young (Mentor: Renata Budny)** - Intraoral Scanning vs. Traditional Impression Taking.
28. **Khatisha Ali (Mentor: Renata Budny)** - Restoring Maxillary Incisors as Indirect Composite Resin Veneers.
29. **Sheila Pesantes (Mentor: Renata Budny)** - Smile Design through Veneer Restorations.
30. **Paul Chung (Mentor: Renata Budny)** - Restoring Anterior Aesthetics with Indirect Composite Resin.

31. **Akinari Iijima (Mentor: Renata Budny)** - Maxillary Veneers.
32. **Aida L. Egues** - The Relationship Between the Quality of Mentoring Experienced by Hispanic RNs and Their Level of Nursing Practice.
33. **Anthony DeVito** - Radiation Hormesis: The Beneficial Effects of Radiation.
34. **Joycelyn Dillon** - Erosion? Abrasion? Abfraction?
35. **Theresa Keane** - Evidence-based approaches to treating co-occurring mental health and substance use disorders.
36. **Margaret Rafferty** - Accelerated (Second Degree) Versus Traditional BSN Program: Does Program Design Make a Difference in Clinical Performance?

Hospitality Management

37. **Claire Stewart** - What's the Buzz... Tell Me What's Happening...Documenting the First Year of a New Bee Hive.
38. **John Akana, Amit Mehrotra, Patrick O'Halloran** - Credit Card Debt: What You Should Know.
39. **Elizabeth Schaible** - Down on the Farm: A Farm to Table Photo Essay of the Indiana Farmer.
40. **James Reid and Susan Phillip** - Brooklyn as a Tourism Destination: Past, Present and Future.

Humanities, Social Sciences and Paralegal Studies

41. **Lisa Pope Fischer** - Time, Ritual, and Post-Socialist Change in Hungary.
42. **Hugh McDonald** - Principles.
43. **Jean E. Kubeck, Howard Sisco** - Human Subjects Research: What You Need to Know.
44. **Shauna Vey, Victoria Lichterman** - Speaking Across the Curriculum: A Faculty Commons Fellowship Project.
45. **Susan Beningson** - Religion and Sacred Art on the Silk Road: The Transmission of Buddhism to China and Its Assimilation as Seen in Cave-Temples at Dunhuang.
46. **Eric M. Rodriguez** - Identity Integration Between Sexual Orientation and Religious/Spiritual Beliefs.
47. **Tess Tobin** - The IFLA Multicultural Library Manifesto: The Multicultural Library – a Gateway to a Cultural Diverse Society in Dialogue.
48. **Marissa J. Moran** - The BlackBerry Legal Scholar.
49. **Marta Effinger-Crichlow** - Staging Migrations: Sissieretta "Black Patti" Jones in the Age of Jim Crow.