Organizing Committee

Roman Kezerashvili, chair
Candido Cabo
Bronwen Densmore
Delaram Kahrobaei
German Kolmakov
Darya Krym
Alexander Rozenblyum
Hans Schoutens
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NEW YORK CITY COLLEGE OF TECHNOLOGY
THE CITY UNIVERSITY OF NEW YORK
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WHERE CAN TECHNOLOGY TAKE YOU?

NEW YORK CITY COLLEGE OF TECHNOLOGY
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THE CITY UNIVERSITY OF NEW YORK

PROGRAM

10th Annual

POSTER SESSION

of Faculty and Student Research and Faculty Publications Exhibit

Faculty Research Recognition Day.

Thursday, November 15, 2012
1:00 pm to 3:00 pm
Klitgord Gym
The 10th Annual City Tech Poster Session exhibits the research of faculty and students. The Poster Session creates a spirit of College community, honors its intellectual achievements, and inspires its members. This year we celebrate the 10th anniversary of this initiative. Over the past decade the Poster Session has grown, diversified, and evolved into a well-known and cherished tradition at the College. By promoting faculty and student research, the Poster Session initiative has added a new dimension to life at our College. This dimension has continued to grow as the success and popularity of the original Poster Session spurred the creation of the Honors and Emerging Scholars Poster Presentation by students which focuses on student research.

The Poster Session is generously supported by
The New York City College of Technology Foundation

The School of Arts and Sciences

We extend our appreciation to
Omayma Stephan, Image/Visual Communications and Reproduction Center for their efforts and support

Welcome and Greetings

1:30 pm-1:50 pm  Dr. Russell Hotzler, President
      Dr. Bonne August, Provost
      Dr. Karl Botchway, Interim Dean of the School of Arts and Sciences
      Barbara Grumet, Esq., Dean of the School of Professional Studies
      Kevin Hom, Interim Dean of the School of Technology and Design

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. Illya Azaroff, Designing for Disaster: High Density Response.
2. Lloyd Carr, Color Matching for Online and Offline Media.
3. Anita Giraldo, Steel, Ice and Stone, a Multi-media Installation.
5. Alexander Aptekar, Complex Form Design and Construction.

Biology and Health Sciences
6. Maureen Archer, Susan Nilsen Kupsch, Anti-Viral Agents and Hepatitis C.
11. Susan H. Davide, Marilyn Cortell, Knowledge and Attitudes of HIV among Senior Dental Hygiene Students.
15. Andleeb Zameer, Protection of Oligodendrocytes and Remyelination in Multiple Sclerosis.
20. Ashley C. Grill, Periodontal Diagnosis Affected by Variation in Terminology.
22. Anna Matthews, Atypical Regression in Children and Adolescents with Down Syndrome.
23. Alberto Martinez, Searching for New Chemotherapies for Tropical Diseases.

Business

Physics
95. Vladimir S. Boyko, Twinning in Nanocrystalline FCC and BCC Metals.
96. Davron Mallayev, Justin Vazquez-Poritz, Zhibai Zhang, Marginal Deformations of Lifshitz Vacua.
97. Giovanni Ossola, Scattering Amplitudes at the Next-to-Leading Order for the Large Hadron Collider.
98. German V. Kolmakov, Turbulence of a Dipolar Exciton Bose-Einstein Condensate.
100. Justin Vazquez-Poritz, Holographic Applications of String Theory.
102. Darya Krym, Exact Half-BPS Flux Solutions in M-theory.
103. Boris Gelman, Spin-Flavor Symmetry in Large Nc QCD and Nucleon-Nucleon Interaction.
104. Lufeng Leng, Thinh Le, A Raman Amplified GPON Reach Extension System Employing Parameters of a Deployed Fiber.
105. Viviana Acquaviva, From Galaxies to Cosmic Acceleration.
106. Roman Kezerashvili, Formation of Excitons in Graphene as a Relativistic Two-Body Problem.

Ursula C. Schwerin Library
107. Partners in Research, Scholarship, and Pedagogy.
108. Supporting Open Access at City Tech.
73. Susan Brandt, Mentoring in a Live Performance Environment; Mentoring Across Disciplines.
75. Lubie G. Alatriste, Creating Successful Communities of Writers in Our Classrooms.

**Mathematics**
79. Delaram Kahrobaei, Charalambos Koupparis, Non-Commutative Digital Signatures.
80. Hans Schoutens, Transfinite Linear Algebra.
81. Delaram Kahrobaei, Frank Aline, Yiming Yu, Damon Cham, Where is My Moon?
83. Sheila Miller, Applications of Network Analysis.
85. Laura Ghezzi, Hilbert Coefficients of Parameter Ideals with a Common Integral Closure.
86. Ariane Masuda, Sequences of Consecutive Smooth Polynomials Over a Finite Field.
88. Simon Smith, Symmetry Breaking in Groups and Graphs.
90. Andrew Parker, Extending the Euler Class Group for Projective Modules.

**Computer Engineering and Information Systems Technology**
27. Marcos Pinto, Supporting Semantic Web: Technologies for Knowledge Management.
31. Ohbong Kwon, Optimizing Frequency Resolution Multi-tone Detection Using the WDFT.
32. Fangyang Shen, Building Effective Connected Dominating Sets for Ad Hoc Networks.
34. Iem Heng, Quaternions in OpenGL.
35. Benito Mendoza, On Bidding Algorithms for a Distributed Combinatorial Auction.
36. Junior Tidal, From Open Source to on Your Phone: Using Drupal to Develop the Library’s Mobile Website.

**Engineering Technology**
38. Sean Pratt, Malek Brahimi, Transformation Reliability from Small to Larger Proton Exchange Membrane Fuel Cells.
42. Djafar K. Mynbaev, Will Optical Communications Meet the Challenges of the Future Demands?

44. Edwin Olaya, Agossa Segla, Viviana Vladutescu, Phillip Coulter, Theodore Hajimichael, Raymond Ohl, Non-Contact Measurement of Large Format Detectors and Thermal Blanket Surrounding the Flight Instruments of JWST.


**Hospitality**

47. Patrick O’Halloran, E-Learning as It Relates to Students, Educators and Job Opportunities in the Hospitality Industry.

48. James R. Reid, From Disasters and Devastation to a Destination of Desire: Exploring Tourism Futures in Haiti.

49. Patrick O’Halloran, Hildiana Cano, Hospitality Industry Certification as It Relates to Students and Employment Opportunities.


**Education**


53. R.L. Slayton, P.R. Kachalia, J. Lozano-Pineda, D. Rolf, R.E. Kovarik, J. A. Dillon, Rethinking Tenure in Dental Education.

54. Christine Thorpe, Analyzing Health Education Training of Human Services Students.


56. Ralph Alcendor, Marie C. Montes-Matias, Diana Samaroo, Transforming Undergraduate Laboratory Experiences in Science Through the Title V: Living Lab Project.


62. Tess Tobin, Transcending Boundaries to Increase Cultural Understanding Between Countries.


64. Rebecca Devers, Miracle Kitchens and Bachelor Pads: The Competing Narratives of Modern Space.

**Humanities, Social Sciences and English**


53. Marta Effinger-Crichlow, Writing the Kings into Contemporary Black Theatre: Katori Hall’s “The Mountaintop” and Pearl Cleage’s “A Song for Coretta”.


56. Steve Panford, Still False Start in Africa?

57. Hugh P. McDonald, Modes of Actuality.