

Organizing Committee



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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**
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

and

The School of Arts and Sciences
We extend our appreciation to
Omayma Stephan, Image/Visual Communications
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Program of Poster Session

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.
4. Barbara Smith Mishara, Sunset Park Waterfront Survey. A Service Learning Project.
5. Alexander Aptekar, Complex Form Design and Construction.

Biology and Health Sciences

6. Maureen Archer, Susan Nilsen Kupsch, Anti-Viral Agents and Hepatitis C.
7. Josef Bohm, Examining the Influence of Insurance and Moral Hazzard on the Utilization of Practitioner-Based Complementary and Alternative Medicine.
8. Sondra A. Rivera, Anthony F. DeVito, Phase I: Pilot to Research, Progress in Motion: Intraprofessional Simulation Between Nursing and Radiologic Technology.
9. Anty Lam, Oral Health of Children in Rural Areas of Myanmar.

10. Margaret Rafferty, Dorothy Grasso, Vitamin D: Implications of the Institute of Medicine Report on Clinical Practice.
11. Susan H. Davide, Marilyn Cortell, Knowledge and Attitudes of HIV among Senior Dental Hygiene Students.
12. Kara Pasner, Artificial Tear Overview: A Comprehensive Study.
13. Liana Tsenova, Boyan Kostadinov, A Simulation Model for the Spread of Swine Flu Pandemic
14. Laina Karthikeyan, Alzheimer's Disease: Causes and Treatments.
15. Andleeb Zameer, Protection of Oligodendrocytes and Remyelination in Multiple Sclerosis.
16. Aida Egues, Elaine Leinung, Relational Aggression in Nursing: Addressing the Elephant in the Room.
17. Jeremy Seto, Reflections on a Silent Spring in an Urban Environment.
18. Davida S. Smyth, The Role of Mobile DNA in Staphylococcus Aureus Adaptation.
19. Irina Grishina, Mouse Models for Human Rectourethral and Genital Malformations.
20. Ashley C. Grill, Periodontal Diagnosis Affected by Variation in Terminology.
21. Jennett M. Ingrassia, Effective Radiography Clinical Instructors.
22. Anna Matthews, Atypical Regression in Children and Adolescents with Down Syndrome.
23. Alberto Martinez, Searching for New Chemotherapies for Tropical Diseases.

Business

24. Lucas Bernard, Wage-share Dynamics: Implications for Growth and Policy in Advanced Economies, World Markets, and Global Competition.
25. Timothy W. Reinig, Choosing Between National Security and First Amendment Values: An Essay on Balancing Competing Interests.
26. Carlos E. Ortiz, Charles A. Stone, Anne Zissu, When Do Securitized Reverse Mortgages Become Liabilities to Investors.

91. Thomas Johnstone, Victoria Gitman, Ground Model Definability.
92. Samar ElHitti, Perron Transforms.
93. Urmi Ghosh-Dastidar, Optimal Vaccination Strategies in Cholera Transmission.
94. Marianna Bonanome, Quantum Algorithms for Function Property Testing of Finite Groups.

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.
99. Oleg Berman, Graphene-Based Photonic Crystals and Localization of Electromagnetic Waves.
100. Justin Vazquez-Poritz, Holographic Applications of String Theory.
101. Ilya Grigorenko, Electron Wave Function Engineering and Design of the Dielectric Response on the Nanoscale.
102. Darya Krym, Exact Half-BPS Flux Solutions in M-theory.
103. Boris Gelman, Spin-Flavor Symmetry in Large N_c 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.
74. Karen Goodlad, Lynda Dias, High Impact Wine Education: Community Support of Student Advancement.
75. Lubie G. Alatraste, Creating Successful Communities of Writers in Our Classrooms.
76. Jill Belli, The Writing Studies Tree: An Interactive Composition and Rhetoric Archive.
77. Farrukh Zia, Ariane Masuda, Patrick Barton, Rubi Dhakal, Slawomir Kania, Kavier Mercy, Use of Flying Machines to Enhance STEM learning. An FYLC Experience.

Mathematics

78. Delaram Kahrobaei, Maggie Habeeb, Vladimir Shpilrain, Secret Sharing Schemes Using Group Presentation.
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?
82. Lin Zhou, Perturbation Analysis on the Dispersive Property of Microstrip Transmission Lines.
83. Sheila Miller, Applications of Network Analysis.
84. Andrew Douglas, The Poincare Algebra in Rank 3 Simple Lie Algebras.
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.
87. Holly Carley, A Survey of Hairpin Copulas.
88. Simon Smith, Symmetry Breaking in Groups and Graphs.
89. Corina Calinescu, On Applications of Vertex Operator Algebras in Lie Theory and Partition Theory.
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.
28. Evan Siegel, Algorithmically Generated Test Generator Using Visual Basic for Applications.
29. Ashwin Satyanarayana, How Search Engines Like Google, Bing Are Evaluated.
30. Eric Sabbah, Secure Release of Location Information for Emergency Medical Alerts.
31. Ohbong Kwon, Optimizing Frequency Resolution Multi-tone Detection Using the WDFD.
32. Fangyang Shen, Building Effective Connected Dominating Sets for Ad Hoc Networks.
33. Carla Araile, Aparicio Carranza, Android Application: Motion Detection Android Camera Enabler.
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

37. Yapah Berry, Malek Brahim, Design of a Larger Proton Exchange Membrane Fuel Cells Based on Small Fuel Cells.
38. Sean Pratt, Malek Brahim, Transformation Reliability from Small to Larger Proton Exchange Membrane Fuel Cells.
39. Olivia Reed, Malek Brahim, Load Effect on Proton Exchange Membrane Fuel Cells.
40. Ozlem Yasar, Layered Fabrication of Patterned Polymers Using UV Photolithography.
41. Gaffar Gailani, Exploring New Research Areas in Biomechanics.
42. Djafar K. Mynbaev, Will Optical Communications Meet the Challenges of the Future Demands?

43. Agossa Segla, Edwin Olaya, Viviana Vladutescu, Phillip Coulter, Theodore Hajimichael, Raymond Ohl, Modern Optical Techniques Used in James Web Space Telescope Segment Optics and Space Instruments.
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.
45. Zory Marantz, On the Optimality of Network Assisted Power Control.
46. Melanie Villatoro, Successful Implementation of PLTL in Statics and Strength of Materials.

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.
50. Amit Mehrotra, Is Success Harder for LGBT Hospitality Managers? Studying LGBT Hospitality Managers' Perception of Success in the Hospitality Industry.
51. Michelle Rodriguez, A Taste of New York Mets Marketing Strategies.

Humanities, Social Sciences and English

52. Mery Diaz, Advancing Urban School Social Worker Knowledge of ADHD and Collaboration with Teachers.
53. Marta Effinger-Crichlow, Writing the Kings into Contemporary Black Theatre: Katori Hall's *"The Mountaintop"* and Pearl Cleage's *"A Song for Coretta"*.
54. Jeannine Foster-McKelvia, Images of Black Women in Theatre: Care Givers and Keepers of Traditions.
55. Mary Nilles, Hemecht: Luxembourgers Making a New Home in Winona County, Minnesota. A Film and Teacher's Guide.
56. Steve Panford, Still False Start in Africa?
57. Hugh P. McDonald, Modes of Actuality.

58. Lisa Pope Fischer, Symbolic Traces of Communist Legacy in Post Socialist Hungary: Reorganizing Healthcare and a Mystification of the Body.
59. Sean P. MacDonald, The Economic Dimensions of the Foreclosure Crisis.
60. Geoff D. Zylstra, Stretching Time, Collapsing Space: New Jersey Market Gardeners Use Technology to Modernize Agriculture, 1840-1870.
61. Anne E. Leonard, Peter Spellane, Old Maps, Digital Technologies: Rediscovering Brooklyn's Petroleum, Sugar and Metals Refining Industries.
62. Tess Tobin, Transcending Boundaries to Increase Cultural Understanding Between Countries.
63. Robert Leston, Anomalous Composition: A Horror in Video.
64. Rebecca Devers, Miracle Kitchens and Bachelor Pads: The Competing Narratives of Modern Space.

Education

65. Noemi Rodriguez, Evaluating the Impact of Online Instruction on Life-Long Learning Skills.
66. Jane Mushabac, Characters in Extremis from English 1141, Creative Writing
67. R.L. Slayton , P.R. Kachalia, J. Lozano-Pineda, D. Rolf, R.E. Kovarik, J. A. Dillon, Rethinking Tenure in Dental Education.
68. Christine Thorpe, Analyzing Health Education Training of Human Services Students.
69. Diana Samaroo, Jay Deiner, Daniel Newsome, Directed Self-Inquiry: A Method for Teaching Laboratory Report Writing.
70. Ralph Alcendor, Marie C. Montes-Matias, Diana Samaroo, Transforming Undergraduate Laboratory Experiences in Science Through the Title V: Living Lab Project.
71. Jody R. Rosen, Jenna Spevack, Maura A. Smale, Charlie Edwards, Connecting and Collaborating on the OpenLab.
72. Karen Goodlad, Jonas Reitz, Richard Hanley, Anne Leonard, Sandra Cheng, Urmi Ghosh-Dastidar, Elaine Leinung, Barbara Mishara, Zoya Vinokur, A Living Lab: Faculty Fellows Incorporating Place Based Learning and High Impact Educational Practices at City Tech.