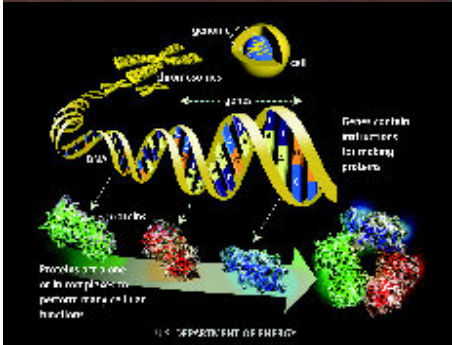




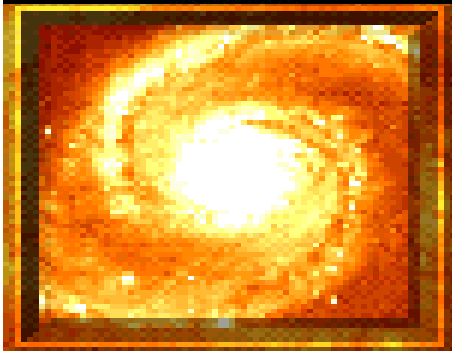
NEW YORK CITY COLLEGE OF TECHNOLOGY
The City University of New York

PROGRAM

City Tech Fourth Annual Poster
Session for Faculty and
Student Research



Faculty Research Recognition Day



Thursday, November 16, 2006
Atrium Ground Floor Gallery
Faculty and Student Presentations
1 pm ~ 4 pm

Organizing Committee

Roman Kezerashvili - chair

Isaac Barjis

Candido Cabo

Zhao Chen

Linda Konecny

Ariyeh Maller

Djafar Mynbaev

Costas Panayotakis

Alex Rozenblyum

Annette Saddik

Steven Soiffer

Opening and Greetings

- 1:15 -1:30 Dr. Russell Hotzler, President
Dr. Bonne August, Provost
Dr. Pamela Brown, Acting Dean of School of Arts and Sciences

Facilitating Grant-Funded Scholarship and Research

1. Information Literacy and New Tools for Scholarly Investigation
2. Using *Community of Science*, an International Database of Funding Opportunities for Scientific Research and Other Projects Across All Disciplines
3. Grants Office Services to Faculty
4. Communities of Interest as Grants Incubators

The Office of the Provost, the Ursula Schwerin Library, the Professional Development Advisory Council, and the Grants Office

Mathematics

1. Hans Schoutens, "How Spread Out Are Functions Near a Point?"
2. Zhao Chen, "An Automorphism of the Linear Space."
3. Alexander Rozenblyum, "Discrete Orthogonal Polynomials Related to Representations of 3- and 4- Dimensional Quantum Rotation Groups."
4. Nadia Benakli, "More on Boundaries of Hyperbolic Groups."
5. Urmi Ghosh-Dastidar, "Re-Visitation of Epidemiological Models."
6. Huseyin Yuce, "Fundamental Frequency of Clamped Polygonal Plates: A Boundary Perturbation Method."
7. Delaram Kahrobaei, "Removing Commutativity from Classical Cryptography."

Physics

1. Vladimir Boyko, Siu-Wai Chan, and Manoj Chopra, "Formation of Twins in the Presence of Nanoparticles in High-temperature Superconductor YBCO."
2. Roman Kezerashvili, "Do We Need the Second Postulate?"
3. Shayaa Muhammad and Ariyeh Maller, "Comparing Measurements of the Galaxy Luminosity Function."
4. Vladimir Boyko and Roman Kezerashvili, "Formation of Oxygen Compositional Stripes in the Vicinity of Grain Boundaries in YBCO."
5. Linfeng Mei, Vladimir Boyko, and Siu-Wai Chan, "Twin Engineering for High Critical Current Densities in Bulk YBCO."
6. Shayaa Muhammad and Lufeng Leng, "Studying the Properties of Electromagnetic Waves Using Microwave Optics."

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7. Gregory Matloff, "Solar Sail Earth Defense from NEO Impacts."
8. X. Tian, Y. Su, L. Yi, L. Leng, W. Hu, and P. Hu, "In-band OSNR Monitoring for Synchronous Traffic."
9. Roman Koulikov and Reginald Blake, "Industrial Ecology – Spurring the Next Production Revolution."
10. Erez Gati and Dmitry Routgauzer, "Future of Nuclear Energy."

Chemistry

1. Peter Spellane and Mary Chan, "Electrochemistry of Porphyrin Compounds with Aniline Oligomer Sidechains: Stable Organic Compounds with Charge-separated Excited States."

Biology and Health Sciences

1. Ravi Ramjit, David Keng, Vasily Kolchenko and Steve Arnold, "The Development of the Photonics-based Biosensor for Viral Detection."
2. Lalitha Jayant, Dewprashad and Laina Karthikeyan, "Effectiveness of Salting for Preservation of Seafood."
3. Walied Samarra, "Modeling, Simulation and Analysis using Finite Automata of Bacillus Subtilis Ribosomal RNA Promoter's Expression in Complex and Minimal Media."
4. Niloufar Haque and Nasreen S.Haque, "Fibroblast Growth Factor FGF-2 Regulates the GFAP Level in Organotypic Hippocampal Slices in Culture."
5. I.Barjis and M. Sierra, "Modeling of Gene Expression."
6. James Remsen, Jr., "The Selection of Taxa for Inclusion in a Systematic Analysis: An Example from the Drosophilidae."
7. Alex Zusin, Francesco Melandri, Maria E. Figueiredo-Pereira and Zongmin Li, "Differential Effects of Prostaglandins on Human Neuroblastoma Cells: Linking Inflammation to Neurodegeneration."
8. Nasreen S. Haque, Sergio Lira and John T. Fallon, "CC Chemokine Receptor CCR8 Regulates Metalloproteinase Expression in CCR8 Deficient Mouse and Co-localizes with CCL1 in Human Restenotic Plaque Smooth Muscle Cells."
9. Lynda Konecny and Angela Sammarco, "Research on the Quality of Life Among Hispanic Women Breast Cancer Survivors."
10. Victoria Ying and Mark Saltzman, "Enhanced Chemotherapy by Drug Conjugation and Release from Polymer."

Computer Sciences and Engineering Technology

1. Aparicio Carranza, “Modeling Photonic Crystal Fibers for use in Quantum Cryptography Systems.”
2. Djafar Mynbaev, “Teaching a Multimode Optical Fiber in an Optical Communication Course for the Engineering-technology Program.”
3. Marcos Pinto, “Pricing in Campus Networks.”
4. Tatiana Malyuta, Robin Bargar, Insook Choi, Robin Michals and Jenna Spevack, “Semantic Brooklyn: Ontological Approach to Design of Data Navigation for Visualization of the Urban Environment.”
5. Xiangdong Li, “A Connection Between AAG Protocol and Post-quantum Cryptography.”
6. Candido Cabo and Penelope A. Boyden, “Heterogeneous Gap Junction Remodeling Stabilizes Reentrant Circuits in the Epicardial Border Zone of the Healing Canine Infarct: A Computational Study.”
7. Malek Brahimi, “Reliability-Based Design Using Simulation for Aluminum Elements.”

Architectural Technology

1. Jill Bouratoglou and AR 511, “Student Designs for the New York City College of Technology’s Welcome Center.”
2. Frankie Lau and Robert Zagaroli 3rd, “Downtown Brooklyn Existing Conditions Analysis of Block 145.”
3. Viviani Rodriguez and Robert Zagaroli 3rd, “Downtown Brooklyn Existing Conditions Analysis of Block 146.”
4. Yuri Remezov and Robert Zagaroli 3rd, “Downtown Brooklyn Existing Conditions Analysis of Block 149.”
5. Edward Chin, Sandy McKee and Robert Zagaroli 3rd, “Tai Chi Urban Agora.”
6. Debra Salomon and AR 609 Design Group, “City Tech Sign System: Wayfinding in the Downtown Brooklyn Streetscape.”

Graphic Arts Technology

1. Lloyd Carr, “How to Get Clean Color in Print.”

Humanities and Social Sciences

1. Martin Garfinkle and Stephen M. Soiffer, "City Tech: A Sixty-Year Pictorial History."
2. Howard Sisco and Julie Tison, "Learning Styles Differences in Relation to Identification with American Culture."
3. Virginia Knight, "TiVO and the Advertising Dilemma."
4. Kyle Cuordileone and Martin Shirer, "The 21 "Turncoat GI's": American Cold Warriors in Manchuria."
5. Stephanie Smolinsky, "Music and Meaning in a 'Terrible Sonnet' by Gerard Manley Hopkins."
6. Shauna Vey, "The Master and the Mademoiselle: Gender Secrets in Plain Sight in Non-Text Based Antebellum Performance."
7. Annette J. Saddik, editor. The Traveling Companion and Other Plays: The Later Plays of Tennessee Williams.
8. Victoria Lichterman, "Dimensions in Demonstrating and Teaching Communication Skills."
9. Timothy W. Reinig, "M-Commerce: The Wireless Revolution in e-Business."
10. Karl Botchway, "The Politics and Apolitics of Development: The Case of a Development Project in Northern Ghana."
11. Hugh McDonald, "Can Environmentalism Be the Basis for Philosophy?"
12. Costas Panayotakis, "Capitalism, Scarcity and Time."
13. Patricia Rudden, "Women in Rock."
14. Mary Nilles, "A Guide to the Photo Collection of the Winona County, MN Old Settlers Association."