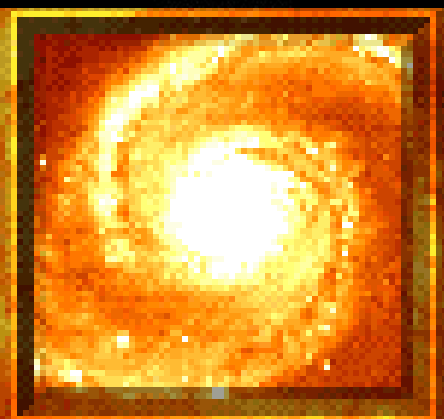
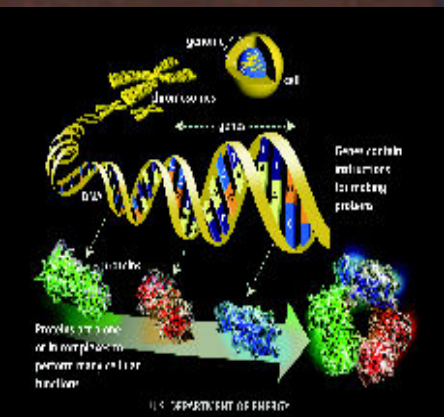




NEW YORK CITY COLLEGE OF TECHNOLOGY
The City University of New York

PROGRAM

The Third Annual
Poster Session of
Faculty and
Student Research



Thursday, November 17, 2005
Room 119 N

Faculty and Student Presentations: 1 pm ~ 5 pm

Opening and Greetings 1:15-1:30 pm

Dr. Russell Hotzler, The President

Dr. Bonne August, The Provost

Mathematics

1. Hans Schoutens. Equations Defining a Spatial Curve
2. Zhao Chen. A Ring Isomorphism of a Linear Space
3. Nadia Benakli. Boundaries of Hyperbolic Groups
4. Alexander Rozenblyum. Representations of the 4-Dimensional Quantum Rotation Group and Discrete Orthogonal Polynomials
5. Ezra Halleck. Variations of the n-Queens Problem

Physics

1. V.S. Boyko, Siu-Wai Chan, Manoj Chopra, R.L. Meng, C.W. Chu. Microstructure Design by Twinning in High-Temperature Superconductor for Enhanced Current at High Magnetic Fields
2. V.S. Boyko, S. Bhaskaran, and O.White. The O-vacancies Compositional Stripes Formation in High-Temperature Superconductor
3. Xiangdong Li. Simulation of Pentaquark Structure Model
4. Ariyeh H. Maller. Studying the Formation Mechanisms of Galaxies
5. X. Tian, Y. Su, W. Hu, L. Leng, P. Hu, H. He, Y. Dong. Precise In-Band OSNR and Spectrum Monitoring Using High-Resolution Swept Coherent Detection
6. Reginald Blake and Emmanuel Alabre. An Inter-comparison Study to Evaluate the Discrepancy in the Measurement of Air Temperature
7. Gregory L. Matloff and C Bangs. A Holographic Interstellar Message Plaque: Art or Science?
8. R.Ya Kezerashvili Chiral Symetry Violation in Forward Pion Double Charge Reactions

Chemistry

1. Gerald Antoine and Pamela Brown. Crystallization in the Metastable Region
2. Mary Chan and Peter Spellane. Porphyrins and Conductive Polymers
3. J. Cho, J. Mazo, and S. Tewani. Applications of Nanotechnology

Biology

1. Steve Arnold, Vasily Kolchenko, and Mayumi Noto. Optical Biosensor for Protein Molecular Weight Detection
2. Isaac Barjis, Idline Ausutin. Modeling of DNA Transcription and Gene Regulation using Petri Nets

3. Niloufar Haque, M. Badruzzaman Khan, Punam Thakkar, Tauheed Ishrat, Nasrul Hoda, Abdusaleem El-Idrissi and Fakhrul Islam. Peroxidative damage in the Brain of Streptozotocin induced Lesions in Mouse
4. Niloufar Haque, M. Badruzzaman Khan, Tauheed Ishrat, Md. Nasrul Hoda and Fakhrul Islam. Streptozotacin Induced Lesions in Mouse Brain: Behavioral Studies
5. Laina Karthikeyan, Manuela Flad, Margit Engel, Birgit Meyer-Puttlitz, Richard U. Margolis and Renée K. Margolis. Immunocytochemical and in Situ Hybridization Studies of the Heparan Sulfate Proteoglycan, Glypican, in Nervous Tissue
6. Isaac Barjis and Ali-Sabel Fakhreldin. Simulation of Molecular Processes: Mitosis and Meiosis
7. Walied Samarrai. Adaptive evolution under adverse conditions in *Bacillus subtilis*

Health Sciences

1. Roberts Cavendish, Lynda Konecny, Linda Naradovy and Pearline Okumpaye. Patients' Perceptions of Spirituality and the Nurse as a Provider of Spiritual Care
2. Angela Sammarco and Lynda M. Konecny. Social Support, Uncertainty, and Quality of Life Among Hispanic – American Breast Cancer Survivors – An Extension Study
3. Gwen Cohen Brown. Oral Manifestations of HIV Disease Within the Incarcerated Geriatric Population: Considerations for the Correctional Provider

Computer Sciences

1. Hong Li. Estimation of Oil Saturation Using Neural Network
2. Candido Cabo, Penelope A. Boyden, Andrew L. Wit. Redistribution of Cx43 Along the Lateral Membrane Increases Transverse Conduction Velocity and Cell-to-Cell Coupling: A Computational Study
3. Tatiana Malyuta. Support of Imprecise Data in Object-Relational Databases
4. Xiangdong Li. How to Secure Small and Midsize Businesses (SMBs) Wi-Fi Network?

Electrical Engineering Technology

1. Djafar K. Mynbaev. GMPLS — New Approach to Developing Next-Generation IP-over-WDM Networks
2. Djafar K. Mynbaev and Karim Ech-chahid. Internet Protocol over DWDM
3. Mohammad Razani. Microwave Remote Sensing of Soil Moisture Under Vegetation Cover
4. Djafar K. Mynbaev. Globalization of Telecommunications

Humanities and Social Sciences

1. Brian Keener. Updike's Human Comedy: Comic Morality in *The Centaur* and the *Rabbit* Novels
2. Richard E. Hanley. The Story of a New Discipline: A Journal, a Book Series, and an Academic Program
3. Costas Panayotakis. Capitalism, Scarcity and Time
4. Stephanie Smolinsky. Phonetic Yin and Yang: Sound-patterns and Meaning in Two Contrasting Lyrics by Wallace Stevens

5. Carrol Lasker. "Telling Memory, Telling Resistance": Voices of Contemporary Black South African Women"
6. Marissa J. Moran. *Although Law and Writing*
7. Kyle A. Cuordileone. *Manhood and American Political Culture in the Cold War*
8. Jane Mushabac. *Being a Writer: Writing about Men, the Coordinates of Gender and Place*
9. Patricia S. Rudden. *Herman Melville in New York*
10. Mark Noonan. *The Place Where We Dwell: Reading and Writing About New York City*