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

PROGRAM

The Third Annual Poster Session for Faculty and Student Research

Faculty Research Recognition Day

Thursday, November 17, 2005
Room 119 N
Faculty and Student Presentations
1 pm ~ 5 pm
Opening and Greetings
1:15 -1:30  Dr. Russell Hotzler, President
Dr. Bonne August, Provost
Dr. Pamela Brown, Dean of School of Arts and Science

Focus Groups and Discussion
2:30-3:30  Building Support at City Tech for Research, Scholarship, and Creative Work
Bonne August, Barbara Burke, Sungmoon Jang, Julia Jordan,
Nona Smith, Peter Spellane

Mathematics

1. Hans Schoutens. Equations Defining a Spatial Curve
2. Zhao Chen. A Ring Isomorphism of a Linear Space
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

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
5. X. Tian, Y. Su, W. Hu, L. Leng, P. Hu, H. He and 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

Chemistry

1. Gerald Antoine and Pamela Brown. Crystallization in the Metastable Region
2. Mary Chan and Peter Spellane. Porphyrins and Conductive Polymers

Biology

1. Steve Arnold, Vasily Kolchenko, and Mayumi Noto. Optical Biosensor for Protein Molecular Weight Detection
2. Isaac Barjis and Idline Ausutin. Modeling of DNA Transcription and Gene Regulation using Petri Nets
3. Niloufar Haque, M. Badruzzaman Khan, Punam Thakkar, Tauheed Ishrat, Nasrul Hoda, Abdusalem El-Idrissi and Fakhruisl Islam. Peroxidative damage in the Brain of Streptozotocin induced Lesions in Mouse

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. Roberta Cavendish, Lynda Konecny, Linda Naradovy and Pearline Okumakpeyi. 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


**Computer Sciences**

1. Hong Li. Estimation of Oil Saturation Using Neural Network

2. Candido Cabo, Penelope A. Boyden and 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


**Literature**

1. Brian Keener. Updike’s Human Comedy: Comic Morality in The Centaur and the Rabbit Novels

2. Jane Mushabac. Being a Writer: Writing about Men, the Coordinates of Gender and Place

3. Patricia S. Rudden. Herman Melville in New York


5. Mark Noonan. The Place Where We Dwell: Reading and Writing About New York City.

6. Annette Saddik. Contemporary American Drama

**Humanities and Social Sciences**


2. Costas Panayotakis. Capitalism, Scarcity and Time


4. Heidi Chavac-Ortiz. A One-Stop Center at City Tech

5. Jose A. Ortiz. Bed and Breakfast in Brooklyn

6. Martin Garfinkle. The Jewish Community of Washington D.C.

7. Marissa J. Moran. Law and Writing

8. Kyle Cuordileone. Manhood and American Political Culture in the Cold War

9. Nivedita Majumdar. The Other Side of Terror: An Anthology of Writings on Terrorism in South Asia