

FACULTY SCHOLARSHIP

2010-2011



NEW YORK CITY COLLEGE OF TECHNOLOGY SCHOOL OF ARTS AND SCIENCES FACULTY SCHOLARSHIP NEWSLETTER 2010-2011

TABLE OF CONTENTS

INTRODUCTION	2
AFRICAN AMERICAN STUDIES	3
BIOLOGICAL SCIENCES	6
ENGLISH	12
HUMANITIES	21
MATHEMATICS	24
PHYSICS	35
SOCIAL SCIENCES	42
ACKNOWLEDGEMENTS	46

INTRODUCTION

The past academic year has been a very productive time for faculty scholarship in the School of Arts and Sciences at City Tech. With an ever increasing scholarly output, research continues to become a more valued and integral part of our faculty's careers. The newsletter highlights publications, presentations, grants, and other scholarly activities of our faculty from September 2010 through August 2011.

Delaram Kahrobaei, Chair
Research and Grants Committee
School of Arts and Sciences
New York City College of Technology

Individual Faculty Research Activity

Marta Effinger-Crichlow:

Publication:

Marta Effinger-Crichlow, "Staging Respectability in Turn of the Century New York City: Reading *Intimate Apparel* by Lynn Nottage" *Literary Managers and Dramaturgs of America (LMDA) Sourcebook*, Vol. 4, New York: LMDA, August 2011.

Research:

Marta Effinger-Crichlow, Panel Moderator for "The Black Theater Canon" at Black Theatre Network Conference, *The Silver Sankofa*, Winston-Salem, North Carolina, July 30 – August 1, 2011.

Grants:

Professor Effinger-Crichlow received a awarded \$500 CityTech Foundation Grant, which enabled her to take her Black Theater students to see Lynn Nottage's *By the Way, Meet Vera Stark* at the Second Stage Theatre - Off-Broadway in Spring 2011.

Professor Effinger-Crichlow helped to organize the Black Theatre Network NE Council's "An Evening with Veteran Broadway Press Agent Irene Gandy." The event was held in the American Negro Theatre Room at the Schomburg Center for Research in Black Culture in December 2010.

Professor Effinger-Crichlow helped to organize the Black Theatre Network NE Council's "An Evening with Veteran Broadway Press Agent Irene Gandy." The event was held in the American Negro Theatre Room at the Schomburg Center for Research in Black Culture in December 2010.

She also received CityTech's Seven Year Service Award in Spring 2011.

Karl Botchway:

Karl Botchway, "Searching for Enhanced state Capacity in Africa," (with Jamee Moudud) at the 36th Annual Conference of the Eastern Economic Association, Sheraton New York Hotel and Towers, February 27 – March1, 2011 Karl Botchway, State, Development and Capacity Building in Africa, Paper presented at the 36th Annual Conference of the New York African Studies Association, State University of New York, Oneonta, March 25-26, 2011

Karl Botchway and Jamee Moudud, Africa After Neo-Liberalism: Prospects for a New Developmental State, **Comparative Studies of South Asia, Africa and the Middle East** (Forthcoming)

Karl Botchway and Jamee Moudud , "Neo-Liberalism and the Developmental State: Consideration for the New Partnership for African Development" in Benjamin Bobo and Herman Sintim-Aboagye (edited) , **Neo-Liberalism, Interventionism and the Developmental State: Implementing the New Partnership for Africa's Development**. Africa World Press, Forthcoming

2011 PSC-CUNY, Research Grant TRADA-42-113: State Capacity and Development in Africa: Public

Jesse C. McCarroll:

Dr. Jesse C. McCarroll was given the "Lifetime Achieve Award" at the National Association for the Study and Performance of African American Music (NASPAAM) Conference. It was held March 23-26, 2011 in Houston, Texas. He is President-elect of this organization.

During the summer of 2011, Dr. Jesse C. McCarroll gave a lecture at Tshwane University of Technology, Johannesburg, South Africa.

He then traveled to Tanzania and was a session presenter at an Ethnomusicology Symposium. It was held on the campus of the University of Dar es Salaam.

Following the Symposium, Dr. McCarroll attended the Pan African Society for Musical Arts Education (PASMAE) Conference at the University of Botswana in the city of Garbone, Botswana. He is the National Representative of the United States to PASMAE.

Dr. McCarroll returned to South Africa and gave a lecture at the University of Pretoria. At all three events, Dr. McCarroll's topic was "Blues of the United States".

Steve Panford:

The Developmental Process and Programs:
Notes from the Field

My year long sabbatical in 2010/2011 was to facilitate a review of bibliographies, research and write a manuscript on the developmental process and programs in Ghana: A case study for Africa.

Lots of books, essays on developmental theorists and programs were reviewed. According to some of these theorists Eric Reinert, in "How Rich Countries Got Rich and Why Poor Nations Stay Poor"; Rene Dumont-"False Start in Africa", Ha Joon Chang-"Bad Samaritans", Lee Kwan Yew-"From Third to First" disagree vehemently with theorists like Jeffrey Sachs and Amartya Sen. Sachs and Sen's insistence that democracy leads to development is rejected by the above theorists. They say is the opposite as manifested by the developments of South Korea, Taiwan, Singapore and China, to name a few.

They in essence reject the developmental projects and programs suggested by United Nations and Western experts. The quest of my work is to do a comparative analysis of developmental programs and theories in some chosen countries to draw general principles as advanced by Weber in "The Protestant Ethic and The Spirit of Capitalism".

Field work took me to Ghana and England to do archival work where I saw some interesting and relevant materials. During the Sabbatical I took time to rest in England, Ghana, and Belgium. The library in down town Staten Island became a base to write before the trip overseas and back. The ghosts in the library could testify to my countless hours there. In Ghana, I did assessment computer needs of schools and I have been able to ship twenty five computers donated by City Tech through the English department.

The manuscript is coming along and will give a full accounting of the project at a future date.

Tshombe R. Walker:

Awards:

Certificate of Scholarly Advancement for participation in the 21st Annual Cheikh Anta Diop International Conference, October 2010

Presentations and Panel Discussions:

“Locating Hip-Hop” Presented at the Asia in New York: Festival of Asian Diversity. (March 2011)

“Legacy of Harriet Tubman.” Presented at the City Tech Celebrates Black History Month Event 2011. (February 2011).

“Hip-Hop, Politics and Youth Empowerment.” Presented at Black Solidarity Day Event at City Tech. (November 2010)

“The Trickster Ethic and Black Agency.” Presented at the 21st annual Cheikh Anta Diop International Conference. (October 2010)

“Harriet Tubman and the Kalulu Ethic.” Presented at City Tech 8th Annual Poster Session. (October 2010)

With several recent faculty hires in our department, activities on research and development have again increased this year. Professors Laina Karthikeyan, Armando Solis and Liana Tsenova contributed a poster at the Ninth Annual Poster Session for Faculty and Students at New York City College of Technology. Professors Laina Karthikeyan and Liana Tsenova was part of a team that helped organize the fifth City Tech Annual Research Conference. Professors Olufemi Sodeinde, Liana Tsenova, Selwyn A. Williams and Andleeb Zameer made oral presentations at the 5th Citytech Faculty Research Conference in 2011. Professor Laina Karthikeyan also chaired the Biology section of the conference. During fall 2011 professors Sanjoy Chakraborty, Niloufar Haque, Laina Karthikeyan, Marie C. Montes Matias, Olufemi Sodeinde and Liana Tsenova along with their students presented at the Emerging Scholars and Honors program poster presentations.

Individual Faculty Research Activity

Ralph Alcendor:

Professor Ralph Alcendor was the Co-PI of a Perkins-VTEA proposal for 2011-2012. He was awarded a PSC-CUNY Research Grant (\$3500) for 2010-2011.

Issac Barjis:

Conference presentation -published as proceedings:

- Barjis I., Smith D. Samarrai W., Modeling and Simulation of Cellular Transport Mechanism as a Game, Summer Computer Simulation Conference. SCSC 2010, pp 514-521., ISBN:1-56555-344-6.
- Summer Computer Simulation Conference. Healthcare Simulation and Healthcare Education Simulation. Ottawa, ON, Canada 2010.

Sanjoy Chakraborty:

Sanjoy Chakraborty was the CO-PI of a NSF SENCER grant (2010).

Publications:

- Chakraborty, S, Simeon S, Palmieri V, and Addya S. Neuroprotection by estrogen under hypoglycemic condition with special emphasis on AKT_GSK pathway. FASEB J, April 2010 (24), 708.2.

Majeedul Chowdhury:

Publications:

- Rahmatullah, M., Shefa, TF., Hasan, L., Hossain, MT., Al-Mamun, SAA., Islam, MR., Rahman, S & **Chowdhury, MH**. "A study of antinociceptive and antihyperglycemic activity of methanol extract of *Brassica juncea* (L.) Czern. Leaves in mice." Advances in Natural and Applied Sciences 4(3):221-225, 2010
- Rahmatullah M, Ghosh KC, Al Mamun A, Hossain MT, Ahmed S, Rahman MA, Eva B, Rahman S & **Chowdhury MH**. "A pharmacological study on antinociceptive and antihyperglycemic effects of methanol extract of leaves of *Phyllanthus reticulatus* Poir. In

Swiss albino mice. *Advances in Natural and Applied Sciences*. 4(3):229-232, 2010.

- Ahmed F, Rahman S, Ahmed N, Hossain M, Biswas A, Sarkar S, Banna H, Khatun MA, **Chowdhury MH** & Rahmatullah M. "Evaluation of *Neolamarckia cadamba* (Roxb.) Bosser leaf extract on glucose tolerance in glucose induced hyperglycemic mice". *African journal of Traditional, Complementary and Alternative Medicine*, 8(1):79-81, 2010.
- Rahmatullah M, Sadeak SMI, Bachar SC, Hossain MT, Al mamun A, Montaha, Jahan N, **Chowdhury MH**, Jahan R, Nasrin D, Rahman R & Rahman S. "Brine shrimp toxicity study of different Bangladeshi medicinal plants". *Advances in Natural and Applied Sciences*, 4(2):163-173, 2010.
- Morshad A, Hossain MH, Shakil S, Nahar K, Rahman S, Ferdausi D, Hossain T, Ahmed I, **Chowdhury MH** & Rahmatullah M. "Evaluation of antinociceptive activity of two Bangladeshi medicinal plants, *Kalanchoe pinnata* (Lam.) Pers. and *Lagerstroemia speciosa* (L.) Pers.". *Advances in Natural and Applied Sciences*, 4(2):193-197, 2010.
- Rahmatullah M, Sultan S, Toma TT, Lucky S, **Chowdhury MH**, Haq WM, Annay MEA & Jahan R, "Effect of *Cuscuta reflexa* stem and *Calotropis procera* leaf extracts on glucose tolerance in glucose-induced hyperglycemic rats and mice". *African Journal of Traditional, Complementary and Alternative Medicines*, 7(2):109-112, 2010.

Laina Karthikeyan:

Laina Karthikeyan was awarded a PSC-CUNY Research Grant for 2010-2011 (\$6000). She was also the PI of a NSF SENCER grant (2010)-post implementation award (\$3000). She was also awarded a GRTI grant. Professor Karthikeyan also received funds from PDAC to present at the 110th Annual Meeting of the American Society for Microbiology in San Diego, CA (2010).

- **Professor Karthikeyan** also reviewed the abstracts of the Annual Biomedical Research Conference for Minority Students on September 20, 2010.
- **Professor Karthikeyan** was selected to be in the registry of "Outstanding American Professionals".

Publications:

- SM Lipson, RE. Gordon, **L. Karthikeyan**, F. Ozen and G. Stotzky, "Effect of cranberry and grape juices on tight junction function and structural integrity among rotavirus-infected monkey kidney epithelial cell monolayer cultures." *Food and Environmental Virology* (2011) Volume 3, Number 1, 46-54, DOI: 10.1007/s12560-011-9055-8.
- **L. Karthikeyan**, Ayurveda, Essence of Optimal Health, *International Journal of Health, Wellness and Society*. *Accepted for publication*.

Conference presentation- published as proceedings:

- CityTech's Commitment to Integrate Civic Engagement Pedagogies in the STEM Disciplines. Pamela Brown, Gwen Cohen-Brown, Urmi Ghosh-Dastidar, **Laina Karthikeyan**, Arnava Taraporevala and Liana Tsenova. SENCER Conference at Barnard College, April 2011.
- Investigations into the mechanism(s) of plant metabolites and comestible juices on the loss of rotavirus infectivity. Fatma S. Ozen¹, Dionne Trotman^{1,2*}, Ronald E. Gordon³, Soha Malmoud¹, **Laina Karthikeyan**², and Steven M. Lipson^{1**}. St. Francis College, Brooklyn, NY¹, New York City Col. Technol., CUNY², Mt. Sinai Med. Center, New York, NY³. Presented by her student Dionne at the 'New England Science Symposium', Friday, April 1, 2011 at the Joseph B. Martin Conference Center at Harvard Medical School, 77 Avenue Louis Pasteur, Boston, Mass.
- Investigations into the mechanism(s) of plant metabolites and comestible juices on the loss of rotavirus infectivity. F. S. Ozen¹, S. M. Lipson^{1*}, D. Trotman², R. E. Gordon³, S. Malmoud¹, and **L. Karthikeyan**². St. Francis College, Brooklyn Heights, NY¹, New York City Col.

Technol., CUNY², Mt. Sinai Med. Center, New York, NY³. Presented at the American Society for Microbiology's 111th General Meeting, 2011, New Orleans, LA.

- Cranberry and Grape Juices Reduce Rotavirus Infectivity in Cell-Free Suspension and Maintain Tight Junction Integrity of Infected Epithelial Cells in Monolayer Culture. M. S. Leon¹, P. Kibrick¹, **L. Karthikeyan**², R. Gordon³, S. M. Lipson¹; 1St. Francis Coll., Brooklyn, NY, 2NYC Col. Tech., CUNY, Brooklyn, NY, 3Mt. Sinai Med. Ctr., New York, NY. Presented at the American Society for Microbiology's 110th General Meeting, 2010, San Diego, CA.
- F. S. Ozen, J. Nuamah, S. Mahaud, R. Gordon, **L. Karthikeyan**, and S. M. Lipson "Comestible juices and their secondary plant metabolites (e.g., proanthocyanidins) reduce rotavirus associated dysfunction of monolayer tight junctions and compromise rotavirus capsid integrity in cell-free suspension". 43rd Annual Fall MACUB Conference at Molloy College, Rockville Centre, NY. Oct. 23rd 2010.

Book chapters:

- Lipson, S.M., R. E. Gordon, **L. Karthikeyan**, M. Singh, A. Burdowski, M. Roy, G. Stotzky (2010). Effect of Cranberry and Grape Juice Drinks on Enteric Virus Integrity, Infectivity in Cell Culture, and Pathology in the Animal Model. In: M. Qian and A. Rimando (ed.), *Flavor and Health Benefits of Small Fruits*. Amer. Chem. Soc. Press, Chicago.
- Shashidharan, P. and **L. Karthikeyan**. Causes of Dystonia: Implications of Genetic and Environmental Factors in the Manifestation of Dystonia in G. Rajarami Reddy, Dr. Flora and Dr. Riyaz (ed), *Environmental pollution, Ecology and Human Health*. NAROSA Publishing Co, New Delhi, India (accepted for publication in 2012).

Presentations:

- "Optimal Health" at the "International Health, Wellness and Society Conference in January 20-22, 2011 at the University of California, Berkeley California.
- Nutrition and Cancer." ISHWAR Center, NY in August 2010.

Walied Samarra:

Conference presentation-published as proceedings:

- Barjis I., Smith D. **Samarrai W.**, Modeling and Simulation of Cellular Transport Mechanism as a Game., Summer Computer Simulation Conference. SCSC 2010, pp 514-521., ISBN:1-56555-344-6

Publications:

- Differential response of *Bacillus subtilis* ribosomal RNA Promoter to Nutritional Stress. **Walied Samarra**, David Iiu, Ann-marie White, Barbara Studmaire, Jacob Edelstein, Anita Seivastava, Russel. Widome and Rivka Rudenr. J. of Bacteriology, Feb. 2011 P723-733.
- An ethnomedical, pharmacological and phytochemical review of some Bignoniaceae family plants. Advanced in Natural and Applied Sciences 4 (3) 236-253. 2010 NANs Dec 2011. M. Reamatullah, **W. Samarra**, R. Jahan, Shah, S. Rahaman, N, Shermin, Z.U.M. M. Chowdhury, S. Bari, F. Jamal, A. Anwarul. A. Azad, S, Ahsae,

Jeremy Seto:

Publications:

- Proapoptotic and antiapoptotic actions of Stat1 versus Stat3 underlie neuroprotective and immunoregulatory functions of IL-11. Zhang J, Zhang Y, Dutta DJ, Argaw AT, Bonnamain V, **Seto J**, Braun DA, Zameer A, Hayot F, Lòpez CB, Raine CS, John GR. J Immunol. 2011 Aug 1;187(3):1129-41.

Olufemi Sodeinde:

Professor Olufemi Sodeinde was the PI of a PSC-CUNY Research Grant and awarded (\$3500) for 2010-2011.

Armando Solis:

Armando Solis was awarded the Diversity Project Development Fund grant, CUNY (Spring 2011). "Increasing Student Success in Bioinformatics Through Inquiry-Based Modules." \$2000.

William Stewart Travel Award (March 2011), application for travel funding supplement for RECOMB 2011 conference travel.

- He was awarded a Fellowship to attend week-long course on BioMedical Informatics at Marine Biology Laboratory, Woods Hole, MA, sponsored by the National Library of Medicine of the NIH (September 2011).

Publications:

- **Solis, Armando D.** & Rackovsky, Shalom R. (2010). "Fold Homology Detection Using Sequence Fragment Composition Profiles of Proteins." *Proteins: Structure, Function, and Bioinformatics*, 78(13):2745-56.
- **Solis, Armando D.** & Rackovsky, Shalom (2010). "Information-Theoretic Analysis of Reference States Used in Contact Potentials for Protein Structure Prediction." *Proteins: Structure, Function, and Bioinformatics*, 78:1382-1397.

Conference presentation- published as proceedings:

- **Solis, Armando D.** (March 2011). "Optimal Use of Protein Structural Data for Knowledge-Based Potentials." 15th Annual International Conference on Research in Computational Molecular Biology, RECOMB 2011 (Vancouver, Canada).
- **Solis, Armando D.** (July 2011). "Maximal Use of Information Found in All Protein Structure Data." 19th Annual International Conference on Intelligent Systems for Molecular Biology, ISMB 2011 (Vienna, Austria).

Panel Presentation:

- Schiebe, Mark; Newsome, Daniel; **Solis, Armando D.**; Samaroo, Diana; Deiner, Jay (May 2011). "Reimagining the Lab Report in Chemistry and Biology." Panel presentation for the 7th Annual CUNY General Education Conference at York College.

Professor Armando Solis was invited as NSF grant reviewer for Division of Chemistry, in the section on Chemical Theory, Models and Computational Methods (February 2011).

- Invited as manuscript reviewer for peer-reviewed journal *Proteins: Structure, Function, and Bioinformatics* (four manuscripts: June 2010, November 2010, May 2011, September 2011).
- Invited as manuscript reviewer for peer-reviewed journal *Bioinformatics* (one manuscript: September 2011).

Liana Tsenova:

Liana Tsenova was the Co- PI of a Perkin VTEA grant (2011-2012).

Publications:

- CityTech's Commitment to Integrate Civic Engagement Pedagogies in the STEM Disciplines. Pamela Brown, Gwen Cohen-Brown, Urmi Ghosh-Dastidar, Laina Karthikeyan, Arnavaz Taraporevala and **Liana Tsenova**. SENCER Conference at Barnard College, April 2011.
- Ghosh-Dastidar U. and L. Tsenova. Water quality analysis of the Hudson and Gowanus, Nucleus. September 2010;2(1):8-9. Citytech, CUNY.
- Koo M., C. Manca, G. Yang, P. O'Brien, N. Sung, L. Tsenova, S. Subbian, D. Fallows, G. Muller, S. Ehrhart and G. Kaplan. Phosphodiesterase 4 Inhibition Reduces Innate Immunity and Improves Clearance of *Mycobacterium tuberculosis* in the Lungs of Infected Mice. PLoS ONE, Feb 2011;6(2)
- Singhal. A, Aliouat E, Hervé M, Mathys V, Kiass M, Creusy C, Delaire B, Tsenova L, Bertout L, Camacho L, Foo D, Tay H.C, Yee S. J, Boukhouchi W, Romano M, Mathema B, Dartois V, Kaplan G, Bifani P. Experimental tuberculosis in the Wistar rat: A model for protective immunity and control of infection, PLoS One. 2011 Apr 12;6(4):e18632.
- Selvakumar S, L. Tsenova, P. O'Brien, G. Yang, M. Koo, B. Peixoto, D. Fallows, J. Zeldis, G. Muller and G. Kaplan. PDE4 inhibition combined with INH treatment of rabbits with pulmonary tuberculosis reduces macrophage activation and lung pathology. Am J Pathol. 2011 Jul;179(1):289-301. Epub 2011 May 7.
- Selvakumar S, L. Tsenova, P. O'Brien, G. Yang, M. Koo, D. Fallows, V. Dartois, G. Muller and G. Kaplan. Immune modulation in rabbits with pulmonary tuberculosis alters host and bacterial gene expression and improves isoniazid mediated killing of *Mycobacterium tuberculosis*. PLoS Pathog. 2011 Sep;7(9):e1002262. Epub 2011 Sep 15.

Conference presentation- published as proceedings:

- An Interdisciplinary Study on Nosocomial Infections and our Community, SENCER Regional Conference, College of SI, October 2nd, 2010.
- Multi Drug Resistance and Nosocomial Infections in Brooklyn, NY" 2010 Annual Biomedical Research Conference for Minority Students (ABRCMS), Charlotte, NC, Nov 13 2010 and City Tech Eight Annual Poster session of Faculty and Student Research, Nov 18, 2010, NYCCT, CUNY.
- Water Quality Analysis of Hudson River and Gowanus Canal. City Tech Eighth Annual Poster session of Faculty and Student Research, Nov 18, 2010, NYCCT, CUNY.
- Connecting Biology and Mathematics - Two Research Projects at City Tech. 5th Annual City Tech Research Conference. April 1, 2011, Brooklyn, NY.
- Bio-Math Connection, Our Community and Civic Engagement – Two SENCER based projects at Citytech. General Education CUNY Conference at York College, New York, May 13, 2011.
- Impact of the Modulation of Macrophage Activation by a phosphodiesterase-4 (PDE4) inhibitor on the Isoniazid Response to *Mycobacterium tuberculosis*. Gordon Research Conference: Phagocytes. Davidson, NC, 18-24 June 2011.
- Phosphodiesterase-4 Inhibition Improved INH Induced *M. tuberculosis* Killing and Reduces Lung Pathology in Rabbits with Pulmonary TB. Gordon Research Conference: Tuberculosis Drug Development, 3-8 July, 2011, Lucca, Italy
- Citytech's Commitment to Integrate Civic Engagement Pedagogies in the STEM Disciplines. SENCER Summer Institute Poster Presentations, July 22, 2011, Indianapolis, Indiana.

Professor Tsenova reviewed manuscripts for Journal of *Infection and Immunity*.

Tatiana Voza:

Tatiana Voza was the Co- PI of a Perkins VTEA Grant 2011-2012. She was awarded a PSC-CUNY Research Grant for 2010-2011.

Publications:

- Neither mosquito saliva nor immunity to saliva has a detectable effect on the infectivity of Plasmodium sporozoites injected into mice. Kebaier C, **Voza T**, Vanderberg. *Journal of Infection and Immunity*. 2010; 78(1): 545-51.
- **Voza T**, Kebaier C, Vanderberg J. Intradermal immunization of mice with radiationattenuated sporozoites of Plasmodium yoelii induces effective protective immunity. *Malaria Journal*, 9:362, December 2010.

Professor Voza reviewed a manuscript submitted for publication in the Journal of Experimental Parasitology (January 2011).

Selwyn Williams:

Professor Selwyn Williams was the PI of American Society for Cell Biology Minorities Affairs Committee (ASCB-MAC) 2010 Linkage Fellows Award. Amount: \$10,000.

Book Chapter:

- Professor Selwyn Williams published the following book chapter:
Gotesman, M., Garcés, J.A., **Williams, S.A.**, and Gavin, R.H. 2010. Chromosome Walking by Inverse PCR. In: Nolan, T. (ed.), *PCR Technology: Current Innovations*, 3rd Edition. CRC Press, Florida.

Andleeb Zameer:

Publications:

- Proapoptotic and antiapoptotic actions of Stat1 versus Stat3 underlie neuroprotective and immunoregulatory functions of IL-11. Zhang J, Zhang Y, Dutta DJ, Argaw AT, Bonnamain V, Seto J, Braun DA, **Zameer A**, Hayot F, López CB, Raine CS, John GR. *J Immunol*. 2011 Aug 1;187(3):1129-41.
- TGFbeta1 induces Jagged1 expression in astrocytes via ALK5 and Smad3 and regulates the balance between oligodendrocyte progenitor proliferation and differentiation. Zhang Y, Zhang J, Navrazhina K, Argaw AT, **Zameer A**, Gurfein BT, Brosnan CF, John GR. *Glia* **2010** Jun;58(8):964-74 PMID: 20169621
- Glatiramer acetate-reactive T lymphocytes regulate oligodendrocyte progenitor cell number in vitro: role of IGF-2. Zhang Y, Jalili F, Ouamara N, **Zameer A**, Cosentino G, Mayne M, Hayardeny L, Antel JP, Bar-Or A, John GR. *J Neuroimmunol*. 2010 Oct 8;227(1-2):71-9 PMID: 20637510

The 2010-2011 academic year proved to be a successful one for the members of the English department. Among the impressive accomplishments compiled by faculty members were new books of poems by Nina Bennett (*Lithium Witness*) and Monique Ferrell (*Unsteady*), Peace Corps stories by Aaron Barlow (*One Hand Does Not Catch a Buffalo: 50 Years of Amazing Peace Corps Stories*), a literary/arts journal by Kate Falvey (*2 Bridges Review*), a textbook by Lubie Grujicic-Alatryste (*Urban Reader for College Writers*) and books on American literature by Caroline Hellman (*Domesticity and Design in American Women's Lives and Literature*) and Mark Noonan (*Reading the Century Illustrated Monthly Magazine: American Literature and Culture, 1870-1893*). Many members of the department contributed articles to peer-reviewed journals, book chapters to peer-edited collections, and creative work to online and print publications. Faculty members were also active on the conference presentations and grants.

Individual Faculty Research Activity

Nina Bennett:

Lithium Witness. Finishing Line Press, 2011.

Aaron Barlow:

One Hand Does Not Catch a Buffalo: 50 Years of Amazing Peace Corps Stories. Palo Alto, Calif: Travelers' Tales, 2011.

"The Citizen Journalist as Gatekeeper: A Critical Evolution from the Public Journalism Movement." *Public Journalism 2.0*. Burton St. John and Jack Rosenberry, ed. New York: Routledge, 2010.

(with Ann Seaton). "Seeing the Unseen: Is new-Media Journalism Reshaping Questions of Race?" *Web Journalism: A New Form of Citizenship?* Garrett Monaghan, ed. Eastbourne, UK: Sussex Academic Press, 2010.

Rebecca Devers:

Everyone's the Star of their Own Play: Using Synecdoche, New York to Teach Arthur Miller's *Death of a Salesman*." Paper presented at the International Conference on American Drama, Union, NJ, October 30, 2010.

Anna H.-J. Do:

"Korean Contrastive Discourse Markers and their Role in Register Variation: Evidence from a Corpus." Paper presented at the 12th International Pragmatics Conference (IPrA) Manchester, U.K. July 5, 2011.

"Development of Evaluative Devices in L2 Narrative Structure." Paper presented at the NYS TESOL 32nd Annual Applied Linguistics Winter Conference, Teachers College, Columbia University, NY. Feb. 12, 2011

"Development of Oral Narrative Production in L2 English." Paper presented at the 40th Annual New York State TESOL (Teachers of English to Speakers of Other Languages) Conference, Albany, NY, Nov. 6, 2010.

Kate Falvey:

"Foodstuffs." *Redline Blues* 7 (Winter 2010): *Lean Times* issue. 25-26.

“The Harlem Renaissance” Research Guide to Modern American Literature, Ed. George Anderson. New York: Manly, 2010. 27-35.

“Zora Neale Hurston’s *Their Eyes Were Watching God*.” Research Guide to Modern American Literature, Ed. George Anderson. New York: Manly, 2010. 177-182.

“Jean Toomer’s *Cane*.” Research Guide to Modern American Literature, Ed. George Anderson. New York: Manly, 2010. 226-232.

“Louise Erdrich.” *Encyclopedia of Motherhood*. Ed. Andrea O’Reilly. Thousand Oaks: Sage Publishers, 2010. 355-356.

Monique Ferrell:

Unsteady. New York: New York Quarterly Books, 2011.

“Epitafios.” *Cimarron Review* 173 (2010): 36-38.

“Tyler Perry Would Love This.” *North American Review* 295.1 (2010): 56-58.

“How to Write A Woman,” *Valley Voices: A Literary Review on Tennessee Williams* 10.1 (2010): 22-23.

“EEK,” *Pinyon Review* 19 (2010): 40-41.

“All There Is,” *Pinyon Review* 19 (2010): 42-44.

Matt Gold:

Publications:

“Beyond Friending: BuddyPress and the Social, Networked, Open-Source Classroom.” *Learning Through Digital Media: Experiments in Technology and Pedagogy*, ed. Trebor Scholz. New York: Institute for Distributed Creativity, 2011.

(With George Otte) “The CUNY Academic Commons: Fostering Faculty Use of the Social Web.” *Online Social Networking as a Site for Learning*. Spec. issue of *On the Horizon*. 19.1 (2011).

“Becoming Book-Like: Bob Stein and The Future of the Book.” *Kairos: A Journal of Rhetoric, Technology, and Pedagogy*. 15.2 (Spring 2011).

“Breaking All the Rules: <HR> and the Aesthetics of Online Space.” *From A to <A>: Keywords of Markup*, Eds. Bradley Dilger and Jeff Rice. Minneapolis: University of Minnesota Press, 2010.

Winner of the 2010 Computers and Composition Distinguished Book Award

Invited Talks:

“Beyond Friending: @cunycommons and the Emergence of the Social University.” Digital Dialogues Series, Maryland Institute for Technology in the Humanities (MITH), University of Maryland. November 2, 2010. <http://mith.umd.edu/podcast/?podcast=99>

(With Boone Gorges). "The CUNY Academic Commons: Building the Social University." Yale University, Collaborative Learning Center. 22 February 2011. <http://clc.yale.edu/2011/03/02/the-cuny-academic-commons-building-the-social-university/>

Conference Presentations:

Session Organizer and Presenter, "A Living Laboratory: Redesigning General Education for a 21st-Century College of Technology." 7th Annual CUNY General Education Conference. York College, New York, NY. May 13, 2011.

Special Session Organizer and Chair, "The Open Professoriate: Public Intellectuals on the Social Web." Modern Language Association Annual Conference. Los Angeles, CA. January 7, 2011.

"Looking for Whitman: New Models for Networked, Aggregated Collaboration." 9th Annual CUNY IT Conference: The Tried and the New. CUNY Graduate Center, New York, NY. December 10, 2010.

"Building Communities on the CUNY Academic Commons" (session organizer and chair) 9th Annual CUNY IT Conference: The Tried and the New. CUNY Graduate Center, New York, NY. December 10, 2010.

"Open It Up: The Prospect of a CUNY-Wide Online Student Publishing Platform," Co-Presented with Mikhail Gershovich, Boone Gorges, Joseph Ugoretz, and Luke Waltzer. 9th Annual CUNY IT Conference: The Tried and the New. CUNY Graduate Center, New York, NY. December 10, 2010.

"Beyond Friending: Doing Work With BuddyPress." WordCampNYC 2010. New York, NY. October 16, 2010.

Lubie Grujicic-Alatriste:

"You can Make it a Real Learning Experience – and Fun!" *NYS TESOL Idiom* Vol. 41.1, (2011): 4-5.

"Forging New Pathways while Preparing Students for the CATW: The Five Step Approach to Test Prep" Long Island ESOL Conference, April 16, 2011

Urban Reader for College Writers, Kendall/Hunt: Dubuque, Iowa, August 2010.

George Guida:

Grants and Awards:

National Endowment for the Arts Summer Stipend Nomination for *Virtue at the Coffee House: Poetry and Performance in America*, 2011 (for 2012 Award)

Honorable Mention (Runner-Up), Vella Poetry Prize, Paper Nautilus Magazine, for "Assessment," 2011

Poets and Writers Grant for New York City College of Technology Literary Arts Festival Funding (for Sapphire), 2011

PSC-CUNY Research Award (Creative Writing), for "What Follows: A Novel," 2010-2011.

Publications:

(Creative Writing)

"The Italian American Satan" (reprinted poem), forthcoming in *New Hungers for Old: One Hundred Years of Italian-American Poetry*. Scottsdale, Arizona: Star Cloud Press, 2011: 115.

"Who Killed Osama Bin Laden?" Poem of the Week, July 11th, 2011, *The Toucan Magazine* <www.thetoucanonline.blogspot.com>.

"Italian Sunsets" (personal essay), *Humorous Happenings While Traveling in Italy*. Rochester: Winston Press, 2011: 29-34.

"Lunch Lady" (poem), *The Long Islander*. June 2, 2011: A9.

"Fear of Crossing Over" (reprinted poem). *Literature and Gender*. New York: Prentice Hall, 2010: 264-265.

"Pacino" (poem), "So I Don't Look Italian" (reprinted poem) and "Piccola Italia" (reprinted poem). *Italian Passages: Making and Thinking History*. New York: Bordighera Press, 2010: 284-289.

(Criticism)

Foreword to *Humorous Happenings While Traveling in Italy* (forthcoming). Rochester: Winston Press, 2010: xiii-iv.

"Only the Zen Know Brooklyn: The Poet/Parent Wisdom of Diane di Prima," *The Paterson Literary Review* 39 (2011): 58-67.

Readings and Presentations:

Featured Poet, The Poets' Piazza, Dowling College, Oakdale, New York, June 2011.

Featured Poet, The Spring Poetry Fest, The Italian American Writers Association, New York, New York, April 2011.

"Cooking for a Mob: An Italian American Restaurateur's Life as a Master Chef among Mafia Chieftains," with Thomas Verdillo, The 3 Fs in Italian Cultures: Critical Approaches to Food, Fashion, and Film, The John D. Calandra Institute Annual Conference, New York, New York, April 2011.

Featured Author, Spring Blossoms: Poems about Rebirth, The Southampton Historical Museum, Southampton, New York, April, 2011.

Featured Poet, The Poetry Cafè at the Huntington Historical Society Barn, Huntington, New York, January 2011.

Panelist, "CUNY Online Composition Pilot: A New Model of Collaborative Course Development" The 9th Annual CUNY IT Conference, New York, New York, December 2010.

Featured Author, "Writers Read"; Presenter, "Diane di Prima's Cosmic Joke"; Co-Chair, "Roundtable on Membership Development, The American Italian Historical Association Conference, New York, New York, November 2010.

Featured Poet, Reading from *Avanti-Popolo: Italian American Writers Sail Beyond Columbus*, The John D. Calandra Institute, New York, New York, October 2010.

Featured Author, Summer Gazebo Readings, Oceanside, New York, August 2010.

Carole K. Harris:

"The Politics of the Cliché: Flannery O'Connor's 'Revelation' and 'The Displaced Person.'" *Partial Answers: Journal of Literature and the History of Ideas*. 9.1 (Jan. 2011): 111-129.

"Route 441: Signs from Flannery O'Connor's Milledgeville." Photo-essay. *The Flannery O'Connor Review* 9 (2011): 45-52.

Grant Activity:

PSC-CUNY-42 Research Award, University Committee on Research Awards, City University of New York (B-Level), July 1, 2011-June 30, 2012, \$6,000.

Creative Production:

"Mother and Child, Beijing" (photo), "Women and Art Show," Grace Gallery, March 15-31, 2011, opening reception, March 15, 2011.

"Train Station and Kudzu" (photo), Group Show ("Nostalgia"), Gallery 364, Bay Ridge, Brooklyn, Sept.-Oct. 2010, opening reception, Aug. 26, 2010.

Conference Papers:

"Revelations of the Civil Rights Era: Reconsidering Flannery O'Connor at New York City College of Technology." Presented at "Startling Figures: A Celebration of the Legacy of Flannery O'Connor," Georgia College and State University, April 14, 2011.

"Reconsidering Flannery O'Connor: 'The Literature of the Civil Rights Era (1955-1965).'" Presented at the Louisville Conference on Literature and Culture Since 1900, University of Louisville, Feb. 26, 2011.

"My Father's Girls," personal essay. ("Authors Reading Poetry and Fiction.") Presented at the Louisville Conference on Literature and Culture since 1900, University of Louisville, Feb. 26, 2011.

Prizes and Awards:

Second place, Literary Arts Festival, faculty and staff division, for short story "My Father's Girls." April 12, 2011.

Caroline Hellman:

Domesticity and Design in American Women's Lives and Literature: Stowe, Alcott, Cather, and Wharton Writing Home. Routledge, 2011.

Alan Huffman:

“The phonological motivation for Verner’s Law and Grimm’s Law”. Presented at the Tenth International Columbia School Linguistics Conference. October, 2010, Rutgers University.

Lecture:

“Deixis in three languages: Latin, Mandarin, and English.” Fifth Institute for the Study of Form, Meaning and Human Behavior in Language. City College of New York, January, 2010.

Reneta Lansiquot:

(with R. A. Blake & J. Liou-Mark). Creating and sustaining an interdisciplinary STEM culture at City Tech. Poster session presented at the 2010 PKAL/Keck National Colloquium, Washington, DC. October 2010.

(with R. A. Blake, Dreyfuss, A. E., & Liou-Mark, J.). The navigation by mentoring and leadership program at City Tech. Poster session presented at the CUNY Aspiring Women Scientists 2010 Forum, New York, NY, September 2010.

Robert Leston:Invited Speaker:

“Creating from the Chora.” Holocaust Educators Network at The Memorial Library. NY, NY. July 12, 2011.

Conference Presentations:

“Towards an Interdisciplinary Studies Curriculum Designation at the New York City College of Technology” (with Andleeb Zameer and Reneta Lansiquot). 7th Annual CUNY General Education Conference: Journeying through General Education. York College, CUNY. Queens, NY. May 13, 2011.

“The Chora of The Twin Towers: Three Panelists Invite You to Participate in Contesting and Documenting the Struggle for Rebirth.” 62nd Annual Convention of the Conference on College Composition and Communication. Atlanta, GA. April 6-9, 2011.

Jane Mushabac:

“Civil War Stories,” 1-hour podcast, National Endowment for the Humanities-funded audio guide to the writings of Walt Whitman and the New-York Historical Society Civil War holdings in the Henry Luce III Center for the Study of American Culture, on “Making Objects Speak” website series of 12 podcasts,
< http://jjcweb.jjay.cuny.edu/history/making_objects_speak/index.php/civil-war-stories/>. February 15, 2011, to current.

“Making Objects Speak “Wisdom Paper: Slow Looking and Writing Audiotours,”
<http://jjcweb.jjay.cuny.edu/history/making_objects_speak/pdfs/tour9wisdompaper.pdf>. February 15, 2011, to current

“Pasha: Pensamientos de David Aroughetti,” my short story in Judeo-Spanish [my English translation of this work appeared 2005 in *Midstream*]. *Sephardic Horizons*, online journal, 1.4 (Summer/Fall, 2011).

“From *The Hundred Year Old Man*: Canakkale, 1911,” opening episode of my short novel. *Conversations* Spec. issue on Creativity, 11 (Fall, 2011).

“Joya Gormezano,” my monologue performed by Tovah Feldshuh in her one-woman show, *Tovah: Out of Her Mind!* (Jane Mushabac, Contributing Writer). 1996-to current, most recently: Florida Atlantic University, Carole and Barry Kaye Performing Arts Auditorium, Boca Raton, FL, Dec. 4, 2010.

---. Palm Beach State College, Eissey Campus Theatre, Palm Beach Gardens, FL. Dec. 3, 2010.

---. Hampton Synagogue. Westhampton Beach, NY. Sept. 5, 2010.

---. Cabaret Conference. Yale University School of Drama. July 24, 2010.

Invited Lectures (Featured Speaker):

“Keynote Address.” New York City College of Technology Honors Convocation, Klitgord Auditorium. May 26, 2011.

“Pasha: Ruminations of David Aroughetti.” Scholar on Campus public lecture, fiction reading, NYCCT, Atrium Amphitheatre. April 11, 2011.

“Pasha and Other Stories: Sephardic Writer Jane Mushabac Tells New York Tales,” fiction reading. Institute for Jewish Ideas and Ideals, Spanish and Portuguese Synagogue, New York. February 13, 2011.

“New York Writer Jane Mushabac Reads a Sephardic Story.” Rand Corporation, Santa Monica, CA. November 4, 2010.

“Pasha and Other Stories: Sephardic Writer Jane Mushabac Tells Tales,” California State University, Long Beach, co-sponsored by departments of Romance, German, Russian Languages and Literatures, History, and Middle Eastern Studies and Jewish Studies Programs. November 3, 2010.

Presentations:

“Civil War Stories,” brief talk. NEH-funded event, “Making Objects Speak: Portable Audio Guides for Teaching with Visual Culture in the Humanities.” John Jay College. February 15, 2011.

“Food,” reading of my short story in “Telling Our Stories: Food for Thought and Action.” NYCCT, Atrium Amphitheatre, May 12, 2011.

“A Marriage Proposal,” short play by Kimberly La Force [my English 1141 student]. Dir. Jane Mushabac. NYCCT Literary Arts Festival. Klitgord Auditorium. April 12, 2011.

“‘Good News’ Poems from English 1141, Creative Writing,” poster presentation. NYCCT Faculty and Student Research. Nov. 18, 2010.

Mary Nilles:

“Moving Home: Luxembourgers in America-A Photo Exhibition” August 6 – October 31, 2010
Luxembourger American Cultural Center

“Finding Home: the Luxembourger Immigrant Experience in the Arts.” Presented at “Moving Home: Recording & Celebrating the Immigrant Experience” Luxembourg American Cultural Conference, 6 August 2010 Luxembourg American National Center, Belgium, WI.

“The Immigrant Family” Sculpture, unveiled at the August 2010 national Luxembourger Center Conference. (In the Winona Post, Winona Daily News, St. Charles Press) “Drawn Home: The Immigrant Journey: A Multi-Media Display focused on Immigration History and Cultural Diversity,” Luxembourg Business Journal, Summer 2010.

Mark Noonan:

Reading The Century Illustrated Monthly Magazine: American Literature and Culture, 1870-1893 Kent State: Kent State University Press, 2010.

“Prefer.” *The Art of the Word*. Molly Mcquade, ed. New York: Sarabande Books, 2010.

“‘Jump Back, Honey, Jump Back’: Reading Paul Laurence Dunbar in the Context of Century Magazine” in *We Wear the Mask: Paul Laurence Dunbar and the Representation of Black Identity*. Kent State: Kent State University Press, 2010.

Johannah Rodgers:

“Works on Paper: Review of Robert Walser's Microscripts.” *The Brooklyn Rail* Sept. 2010: 45-46.

Annette Saddik:

Essays:

“‘Too Grotesque and Too Funny for Laughter’: Publishing the Late Tennessee Williams”. In *Tenn at 100*, ed. David Kaplan. East Brunswick, NJ: Hansen Publishing Group, 2011.

“Something about the Deep South of America and London’s East End’: Tennessee Williams’s Late Plays and In-Yer-Face Theatre.” *Valley Voices* 10:1 (2010): 58-71.

Invited Talks and Conference Presentations:

August 28, 2011: Westport Playhouse. Westport, CT. Production of Tennessee Williams’ *Suddenly Last Summer* (directed by David Kennedy). I was invited to be the featured speaker for a post-show discussion [postponed for Hurricane Irene]

June 26, 2011: Tennessee Williams in Europe: A Centenary Celebration 1911-2011. Nancy, France. I was invited to participate in a panel discussion on Williams’ reputation in Europe with David Savran, Thomas Keith, David Kaplan, and Dirk Gindt.

June 25, 2011: Tennessee Williams in Europe: A Centenary Celebration 1911-2011. Nancy, France. “‘Drowned in Rabelaisian Laughter’: Germans as Grotesque Comic Figures in the Plays of Tennessee Williams.” I was invited to give a paper at this international conference celebrating Williams’ centenary at the University of Nancy.

April 18, 2011: Panel Discussion on the Late Plays of Tennessee Williams, Columbia University, New York, NY. I was invited to discuss the manuscripts of Williams’ late plays that are housed in Butler Library of Columbia University, and my role in editing these plays for publication.

March 27, 2011: Tennessee Williams New Orleans/Literary Festival. New Orleans, LA. "The Humor of Tennessee Williams." Invited panel discussion.

March 26, 2011: Tennessee Williams New Orleans/Literary Festival. New Orleans, LA. "I didn't go to the moon, I went much further": A Look at The Glass Menagerie." Invited panel discussion.

March 24-25, 2011: Georgetown University Tennessee Williams Centenary Festival. Washington, D.C. Resident Festival Scholar and dramaturge. I was invited to give a talk on Williams and provide dramaturgy for the brochure on productions of several Williams plays that took place during Georgetown's celebration of his centenary.

January 22nd, 2011: "The Kindness of Strangeness: Rethinking Tennessee Williams @100, a series of panel discussions to commemorate the 100th birthday of Tennessee Williams at the "Museum of Art and Design, New York, NY. I was invited to be part of a program on "Tennessee Williams' Queer Representations of Sex and Gender" in conjunction with the production of Williams' late play, Green Eyes.

Rebecca Shapiro:

"The Harmless Drudge's Guide to Editing Prefaces and Theoretical Front Matter in Dictionaries Before the OED." American Society for Eighteenth-Century Studies, Albuquerque, 2010.

"Teaching English Literature as a Second Language." Literary London, Institute for English Studies, London, UK, 2010.

HUMANITIES

Our faculty have made their presence felt both around and beyond the city, but certainly also at Citytech. Our resident poet, Carmen Valle, was honored and presented at “Latin American Poets in the USA”, at the Association of Writers and Writing Programs, annual conference and book Fair, in Fall 2010, in Denver, Colorado. Susan Beningson continues to function as Advisor, at the Brooklyn Museum of Art, Asian Art Department, Chinese Textile Survey and Collections Assessment (Fall 2010-ongoing, Fall 2011). She was also invited to be Commentator-at-large at the Lo Archive Workshop on Buddhist Cave-Temples at Dunhuang (China), sponsored by the Tang Center for East Asian Art, East Asian Studies Program, and Princeton University Art Museum, at Princeton University, April 14-16, 2011. At Citytech, she helped organize the “Asia in New York: Festival of Asian Diversity” (March 15-17, 2011), which included: Film Screening and Panel, 3/15/11; Hip Hop Concert and Panel, 3/16; Asian American Writers Roundtable, 3/17. She was also Moderator for the Asian American Writers Roundtable, 3/17/11. The Festival attracted over 200 students for the three events and was supported by a CUNY Diversity Grant.

More activity at Citytech---Victoria Lichterman created and conducted *Presentation Skills Workshop(2011)*, at the request of the our Dental Hygiene Department. An ADGA all-departmental workshop, *Growing Communication Skills: Decreasing Anxiety Through Preparation and Practice*, was also conducted by Prof. Lichterman, with assistance from Prof. Doug Davis. Prof. Lichterman also wrote and performed original material, “Food Groupies,” for Sarah Standing’s Spring 2011 show.

Cathy Santore was awarded a PSC/CUNY 2011-2012 grant for "Trademarks", an iconographical study of a body of Venetian painting of anonymous women to determine the status of the sitter. And finally, for the 6th year running, and with assistance from Justin Davis since 2009, Denise Scannell has run our Annual Speech Competition, this time in December '10. Each semester the Humanities Department offers approximately 24 sections of SPE 1330, Effective Speaking, enrolling an average of 600 students in this critical area. The Effective Speaking Competition is the highlight of the entire semester's coursework for both students and faculty, rewarding excellence, inspiring achievement, raising awareness of the value of effective speaking skills and of speaking ethically, increasing the prestige associated with acquiring these skills, providing a forum for inter-disciplinary activity among faculty, and creating a visible connection between the work of the classroom and real world accomplishment.

Individual Faculty Research Activity

Susan Beningson:

Presentation:

“Ink as Experiment in Contemporary Chinese Art”, City College of New York (CCNY)/CUNY, May 4, 2011.

Journal article:

"The Sacred Topography of Mount Wutai at Dunhuang," in *Pilgrimage and Buddhist Art*, edited by Adriana Proser (New Haven and New York: Yale University Press and the Asia Society Museum, 2010): 26-30.

Journal article:

“Auspicious Emblems: Connections between Chinese Textiles in the Collection of the Brooklyn Museum of Art and Qing Dynasty Snuff Bottles,” *Journal of the International Chinese Snuff Bottle Society*, Baltimore, Md. (forthcoming Winter 2011).

Sandra Cheng:

Conference presentation:

“The Monstrous Portrait: Caricature, Physiognomy, and Early Modern Teratology”, Renaissance Society of America Conference, Montreal, March 2011

Ann Delilkan:

Book chapter:

Segmental Processes: Coda Removal vs Onset Provision, in *Interfaces in Language*, ed., John Partridge. Cambridge Scholars Publications, Newcastle, October 2010, pp 91-112

Mary Edwards:

Journal article:

“On Duccio’s Christ and the Woman from Samaria, Painted for the Maestà,” in *Source: Notes in the History of Art*, XXIX, No. 4, 2010, pp.10-15.

Victoria Lichterman:

Working with New York City Theatre Breaking Barriers (Formerly Theatre By the Blind). Professor Lichterman created an open rehearsal for Introduction to the Theatre and Performance Workshops students for “Merchant of Venice,” “Cat on a Hot Tin Roof,” “Sad Hotel,” and “Sweet Bird of Youth.” The presentation was followed by a Q & A. March 24, 2011.

Cathy Santore:

Journal article:

"*La Nuda*," *New Studies on Old Masters: Essays in Renaissance Art in Honour of Colin Eisler*. Eds. Diane Wolfthal and John Garton. Centre for Reformation and Renaissance Studies, University of Toronto Press, January 2011, pp. 383-403.

Denise Scannell:

Journal article:

“Memoir of an Italian Nose.” J.P. Russo and T.A. Bengiveno (Eds.), *Italian Passages: Making and Thinking History*. New York, American Italian Historical Association, 2010, pp. 239- 249.

Conference presentation:

"Performing a Beautiful Figure: An Intercultural Exploration of the Italian Code Bella Figura and Italian American Guido Culture." *National Communication Association Conference*, San Francisco, CA. November 2010.

Sarah Standing:

Conference presentation:

“Eco-Activist Performance as Intermediated Theatre”, presented as part of "Taxonomies of Multimedia Performance," at the Association of Theatre in Higher Education 24th Annual Conference: Theatre, Media and Survival. August 3-6, 2010.

Invited speaker:

“Speak with Conviction!” Two-day professional workshop for Portland, Oregon sustainability community, coordinated by The Natural Step Network, U.S.A, September 9-10, 2010.

Performance:

Role of Louise in reading of new play “Pulone,” by Mitch Gianunzio. Old North Hall, Northampton, MA. July, 2010.

Shauna Vey:

Conference presentation:

"Shifting Economic Practices in the Employment of Nineteenth-Century Child Performers" at 'Child Labour in the Past: Children as Economic Contributors and Consumers', conference sponsored by the *Society for the Study of Childhood in the Past*. Sept 30th, 2011, The MacDonald Archaeological Institute, University of Cambridge, UK

Carmen Valle:

Book of poems:

Trashumante. Lima: Santo Oficio, 2011.

MATHEMATICS

Activities on research and development have again increased this year in our department.

Twelve faculty members contributed a poster at the **Eight Annual Poster Session** for Faculty and Students: Professors Marianna Bonanome, Zhao Chen, Andrew Douglas, Samar ElHitti, Laura Ghezzi, Joel Greenstein, Delaram Kahrobaei (2 posters in collaboration with students), Gjergj Klimi, Michael Munn, Hans Schoutens, Huseyin Yuce, and Lin Zhou.

Professor Hans Schoutens chaired the organizing committee of the **Fifth Annual City Tech Research Conference**. Professors Bonanome, ElHitti, Klimi and Munn presented at the conference and many faculty members participated and helped in the organization.

This year, once more, the joint **Math/Physics Colloquium** was well attended. We had two excellent outside speakers, Professor Michael Dorff (Brigham Young University) and Professor Rosenberger (Technischen Universität Dortmund, Germany).

Professors Kahrobaei and Schoutens continued the successful **Mathematics Seminar Series**. We had a very prestigious speaker, Professor Alfredo Posamentier (Dean of Education at Mercy College and former Distinguished Lecturer at City Tech), as well as two math faculty talks by Professors Johanna Ellner and Boyan Kostadinov.

Professors Douglas, Gitman and Kahrobaei continued the **C-LAC (Center for Logic, Algebra, and Computation) Seminar Series**. Professor Enric Ventura (Universitat Politècnica de Catalunya) gave a talk and several faculty members and students attended.

Mathematics faculty have also been very active in (co)-organizing **seminars at the CUNY Graduate Center**: Applied Mathematics (Prof. Yuce), Commutative Algebra and Algebraic Geometry (Profs. ElHitti, Ghezzi, Schoutens), CUNY Logic Workshop (Prof. Schoutens), CUNY Representation Theory Seminar (Prof. Douglas), Mathematical Aspects of Cryptography Student Seminar (Prof. Kahrobaei), Model Theory (Prof. Schoutens), New York Algebra Colloquium (Profs. Douglas and Kahrobaei). Several other faculty members gave talks and participated in the seminars.

Once more, many math department members supervised student research, supported by programs including the National Science Foundation, the Emerging Scholars and the Honors Scholars. Two students, mentored by Professor Satyanand Singh and four students, mentored by Professor Kahrobaei presented at the Eighth Annual City Tech Student Research Conference. Several faculty members served in the organizing committee of the conference, chaired by Professor Hans Schoutens.

Individual Faculty Research Activity

Henry Africk:

Reviewed the article “Oliva, Paulo: An Analysis of Godel’s Dialectica Interpretation Via Linear Logic”, *Mathematical Reviews*, 2010d:03104 and the article “Bimbo, Katalin & Dunn, Michael: Symmetric Generalized Galois Logics” *Mathematical Reviews*, 2010h:03028.

Nadia Benakli:

Published the book “Visualizing Calculus by Way of MapleTM: An Emphasis on Problem Solving”, McGraw-Hill 2011 (with S. Singh and A. Taraporevala).

Marianna Bonanome:

Dr. Bonanome was awarded an OAA CUNY grant in collaboration with Professor ElHitti in the Spring of 2011.

Professor Bonanome published the following papers:

- “Toward Quantum-Ensured Privacy and Voting”, accepted July, 2011 by the Journal Physics Letters A (with Vladimir Buzek, Mark Hillery and Mario Ziman).
- “Quantum Algorithms for Fixed Points and Invariant Subgroups”, accepted October, 2011 by the Journal Groups, Complexity, Cryptology (with Stephen Majewicz).

Professor Bonanome presented the following talks:

- “Quantum Algorithms and Invariant Subgroups” at the Annual City Tech Research Conference on April 1, 2011.
- “Quantum Algorithms and Invariant Subgroups” at the New York Algebra Seminar at the CUNY Graduate Center on March 25, 2011.

Professor Bonanome attended the AMS Joint Mathematics Meeting in New Orleans, LA on January 6, 2011 where she presented her poster “Quantum Algorithms and Invariant Subgroups” at the Project NEXt/Young Mathematician’s Network Poster Session.

Zhao Chen:

Presented the paper “Matrix Computations” at the New York State Mathematics Association of Two-Year Colleges, October 23, 2010.

Andrew Douglas:

Dr. Douglas was awarded a PSC-CUNY Research Grant for 2010-2011 and a PSC-CUNY Grant for 2011/2012.

Professor Douglas published the following papers:

- “A classification of the embeddings of the Diamond Lie algebra into $sl(3, \mathbb{C})$ and $sp(4, \mathbb{C})$, and restrictions of irreducible modules Journal of Mathematical Physics, 52, 103507 (2011). (with W. Joseph and J. Repka).
- “Embedding of the Euclidean algebra $e(3)$ into special linear algebra $sl(4, \mathbb{C})$ and restriction of irreducible representations of $sl(4, \mathbb{C})$ ”, Journal of Mathematical Physics, 52, 013504 (2011) (with J. Repka).
- “Indecomposable representations of the Euclidean algebra $e(3)$ from irreducible representations of $sl(4, \mathbb{C})$ ”, Bulletin of the Australian Mathematical Society, 83, 439-449 (2011) (with J. Repka).
- “Indecomposable representations of the Euclidean algebra $e(3)$ from irreducible representations of the symplectic algebra $sp(4, \mathbb{C})$ ”, J. Phys.: Conf. Ser. 284, 012022 (2011) (with J. Repka).
- “Some nonunitary, indecomposable representations of the Euclidean algebra $e(3)$ ”, Journal of Physics A: Mathematical and Theoretical, 43, 13 pages (2010) (with H. de Guise).
- “Some residually solvable one-relator groups”, Bulletin of the Irish Mathematical Society, 65, 23-31 (2010) (with K. Benschath and D. Kahrobaei).

Professor Douglas co-organized a special session in the Western Regional Meeting of the American Mathematical Society entitled “Lie algebra, algebraic transformation groups, and representation theory”, University of Nevada, Las Vegas, April 30-May 1, 2011 (with B. Van Steirteghem).

Professor Douglas co-organized a special session in the Eastern Regional Meeting of the American Mathematical Society entitled “Lie algebra and representation theory”, NJIT, New Jersey, May 22-23, 2010 (with G. Chinta, B. Van Steirteghem).

Professor Douglas co-organized the New York Algebra Colloquium and the CUNY Representation Theory Seminar. These are weekly seminars at the CUNY Graduate Seminar.

Professor Douglas has been a committee member of the Mathematics Panel for the Research Foundation of the City University of New York since 2008.

Professor Douglas was a visiting researcher at the Department of Mathematics, University of Toronto, Canada, for the month of June 2011. He was also a visiting researcher at the Department of Mathematics and Statistics, University of Saskatchewan, Canada, in July 2011.

Professor Douglas supervised the following undergraduate research students at NYCCT:

- Steven Lora, Emerging Scholars and Honors Project. “The Linear Algebra behind Web Search Engines”, Spring 2011. Presentation: Annual meeting of the MAA Metropolitan New York Section, Stony Brook University (SUNY), May 1, 2011.
- Enmanuel Almanzar, Emerging Scholars. “Mathematical Origami”, Spring 2011.
- Elizabeth Mills and Dennis Nguyen, Emerging Scholars and Honors Project. “The Energy of Graphs”. Fall 2010.
- Tarik Johnson. “The Energy of Graphs”. Fall 2010.

Samar ElHitti

Dr. ElHitti was awarded an NSF-AWM travel grant in Spring 2011 (declined for visa complications). She was also awarded an OAA CUNY grant in collaboration with Professor Bonanome in the Spring of 2011, and a PSC-CUNY Research grant as a principal investigator for 2010-2011.

Professor ElHitti presented the following talks:

- “The Artin-Schreier defect extension that fails strong monomialization”, Tenth Colloquiumfest, Istanbul Center for Mathematical Sciences, Istanbul Turkey, June 13, 2011.
- “Artin-Schreier defect extensions and strong monomialization”, Algebra Seminar, University of Missouri, Columbia, MO, March 8, 2011.

Professor ElHitti presented a poster at the AMS Joint Math meeting, Project NExT/Young Mathematician’s Network Poster Session, New Orleans, LA. January 6, 2011.

Professor ElHitti supervised the undergraduate research student Joshua Jansen, Emerging Scholars Program. “Talking with Groups and Rings”, Spring 2011.

Professor ElHitti refereed an article for the Journal of Algebra.

Laura Ghezzi

Dr. Ghezzi was awarded a PSC-CUNY Research grant as a principal investigator for 2010-2011.

Professor Ghezzi published the paper:

- “*Variation of the first Hilbert coefficients of parameters with a common integral closure*”, to appear in the Journal of Pure and Applied Algebra (with S. Goto, J. Hong, K. Ozeki, T.T. Phuong and W.V. Vasconcelos).

Professor Ghezzi presented the following talks:

- “The first Hilbert coefficient of parameter ideals relative to a module” at the Commutative Algebra and Algebraic Geometry Seminar at the CUNY Graduate Center, February 4, 2011.
- “*Linear syzygies in minimal free resolutions of algebraic varieties*” at the New York Algebra Colloquium at the CUNY Graduate Center, October 8, 2010.

Professor Ghezzi served as a referee for the Journal of Algebra and for the Proceedings of the American Mathematical Society.

Victoria Gitman:

Dr. Gitman was awarded a PSC-CUNY Research Grant.

Professor Gitman published the following papers:

- “Ramsey like cardinals II”, Journal of Symbolic Logic, 76(2):541-560, 2011 (with Philip Welch).
- “Ramsey-like cardinals”, Journal of Symbolic Logic, 76(2):519-540, 2011.

Professor Gitman presented the following talk:

- “A natural model of the multiverse axioms”, CUNY Logic Workshop, CUNY Graduate Center, New York, November 2010.

Professor Gitman refereed an article for the journal Topology and its Applications.

Urmi Ghosh-Dastidar:

Dr. Ghosh-Dastidar received MAA NREUP grant on Modeling Hudson River Species and k Class-0 Subgraphs, 2011 (PI – Eugene Fiorini - DIMACS, Rutgers University, Co-PI: Urmi Ghosh-Dastidar, NYCCT, CUNY).

Professor Ghosh-Dastidar published the following papers:

- “Water quality analysis of the Hudson and Gowanus”, Nucleus. September 2010; 2(1):8-9. City Tech, CUNY (with L. Tsenova).
- “Bridging Pathways through Mentoring for Underrepresented Students in STEM, Conference Proceedings, 2011 Mentoring Conference, University of New Mexico, Albuquerque, NM (with Janet Liou-Mark).
- SENCER related article “Microbiology Project Adds Life to Mathematics,” page 19 MAA FOCUS, June-July, 2011 (with I. Tsenova, and A. Taraporevala); www.sencer.net.

Professor Ghosh-Dastidar was elected as a SENCER leadership fellow by the National Leadership Board of the National Center for Science and Civic Engagement; December 1, 2010-May 31, 2012.

Professor Ghosh-Dastidar was invited as a Visiting Faculty for the purpose of research on Graph Theory and Biology; Collaborator: Dr. Margaret Cozzens, Research Professor II of the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Rutgers, The State University of NJ, January 1, 2011-August 31, 2011. Professor Ghosh-Dastidar was also invited as a short term visitor at

the National Institute of Mathematical and Biological Synthesis (NIMBioS) for the purpose of research on Study and Analysis of Transmission of Aquatic Pathogens. Collaborator: Dr. Suzanne Lenhart, Associate Director for Education, Outreach and Diversity of NIMBioS, February 2011, June 2011.

Ezra Halleck

Dr. Halleck published the following article:

- "Consider a Circular Cow", a teaching note to appear in the College Math Journal (MAA).

Professor Halleck supervised undergraduate research for Michael Walz and Andreas Makrigiannis.

Delaram Kahrobaei:

Dr. Kahrobaei was awarded an NSF Grant, National Science Foundation as PI at City Tech, Collaborative Project: Building Cyber security Capacity, DUE1128869 (\$99,000) Total amount of \$398000 Joint with NYU Polytechnic, PI at NYU Polytechnic: Nesir Memon (2011- 2013). She was also awarded a NASA/GSFC Internal Research and Development (IRAD), Co-PI, Educational NASA Computational and Scientific Case Studies (enCOMPASS), PI at NASA: Nargess Memarsadeghi (2012). Professor Kahrobaei was awarded a PSC-CUNY research grant as PI for 2010-2011. She was awarded an NSF-AWM award, Association of Women in Mathematics, 2011. Moreover, Professor Kahrobaei was awarded an NSF-FORWARD to Professorship Grant, PI, George Washington University, University of Ottawa, Gallaudet University, 2011-2012.

Professor Kahrobaei published the following papers:

- "On Residual Solvability of Generalized Free Products of Finitely Generated Nilpotent Groups", Communications in Algebra, Taylor and Francis Publication, Vol. 39, 1-10 (2011).
- "Residual Solvability of Generalized Free Products of Solvable Groups", Journal of Discrete Mathematics and Theoretical Computer Science, Vol 13, No 4, 45-50 (2011) (with S.Majewicz).
- "On Growth Rate of an Endomorphism of a Group", Groups, Complexity, Cryptology, De Gruyter, Vol 3, Issue 2, 285-300 (2011) (with K.Falconer and B.Fine).
- "Aspects of non-abelian group-based cryptography: A survey and open problems", JP Journal of Algebra and Number Theory Volume 21(1) 1-41 (2011) (with B.Fine, M.Habeeb and G.Rosenberger).
- "Finding n-th roots in nilpotent groups and applications in cryptography", International Journal of Pure and Applied Mathematics, Vol. 70, No. 4, 571-593 (2011) (with S.Sze and Dupas, Dambreville).
- "Some Residually Solvable One-relator Groups" Bulletin of the Irish Mathematical Society 65, 23-31(with A.Douglas, K. Bencsath)(2010)
- "A new Public Key Using Semi-Direct Products", Proceedings of the Second International Conference on Symbolic Computation and Cryptography, Royal Holloway University of London, 137-142 (refereed) (with M.Habeeb, V.Shpilrain) (2010)

Professor Kahrobaei edited the following books:

- "Groups, Computations, Applications", Groups, Complexity, Cryptology, de Gruyter Publication, Germany, Vol. 3, Issue 1 (May 2011).
- " Groups, Computational Algebra, Cryptography", American Mathematical Society Contemporary Mathematics, Provisionally Accepted (2012) (with B.Fine and G.Rosenberger).

Professor Kahrobaei published the following books:

- Book: Group Products and Residual Solvability
Lambert Academic Publishing, LAP, Germany, ISBN 978-3-8433-6846-9 (with K.Bencsath) (2010)

Professor Kahrobaei conducted research visits at the University of Toronto, Canada, June 20 - July 22, 2011 (Host: J.Repka) and at the Institute of Computational and Experimental Mathematic (ICERM), Brown University, Mathematical aspects of P vs. NP workshop, August 1-August 5, 2011. She also was the invited participant of The Centre de Recherches Mathématiques (CRM) (Montreal, Canada) August 30-September 6, 2010.

Professor Kahrobaei was invited to give the following talks in international, national conferences and seminar:

- “Public key exchange using Matrices over group rings”, Workshop on post-quantum cryptography in St. Petersburg, Russia, Russian Academy of Science, Steklov Institute, June 12-13, 2011. Invited Talk.
 - Zassenhaus Group Theory Conference, Towson University, Baltimore, May 27, 2011.
 - Tensor Scholar Conference for Women in Mathematics, York College, City University of New York, March 12, 2011. Invited Talk.
 - “A decade of using non-commutative groups in cryptography”, University of Toronto, GANITA seminar, Interdisciplinary seminar whose main focus is on geometry, algebra, number theory and applications, July 12, 2011. Invited Talk.
 - Brooklyn College, Computer Science Colloquium, March 23, 2011. Invited Talk.
 - The joint congress of the American Mathematical Society and the South African Mathematical Society, Special Session on Combinatorial and Computational Group Theory and their Applications, Nelson Mandel Metropolitan University, Port Elizabeth, South Africa (November 2011) Invited Talk.
 - American Mathematical Society Conference, University of Utah, Salt Lake City, Special session on Geometric, Combinatorial, and Computational Group Theory (October 22-23 2011) Invited Talk.
 - American Mathematical Society Meeting, University of Nebraska-Lincoln, Special Session on Algorithmic and Geometric Properties of Groups and Semigroups (October 14-16, 2011) Invited Talk.
 - AWM Anniversary Conference at ICERM: "40 Years and Counting: AWM's Celebration of Women in Mathematics" Brown University (September 17-18, 2011) Invited Talk.
- Growth Rate of an endomorphism of a group
- International conference Approaches to Group Theory, Cornell University (October 9-11, 2010) Invited Talk.
 - International workshop on Complexity and Group Based Cryptography, The Centre de Recherches Mathématiques (CRM) (Montreal, Canada) September 2nd, 2010 Invited Talk.
 - Combinatorics, Groups, Algorithms, and Complexity Conference in honor of Babai’s 60th birthday (Ohio State University, Columbus, Ohio)(2010) Invited Talk.
 - Second International Conference on Symbolic Computation and Cryptography, Royal Holloway, University of London, UK June 23-25, 2010.
 - European Women in Mathematics Conference, Centre de Recerca Matematica, Barcelona, Spain (September 5-9, 2011) Contributed
 - Women in Mathematics Seminar, University of Toronto, TBC Invited Talk.

- New York Algebra Colloquium, Graduate Center CUNY, September 16 2011

Growth rate of an endomorphism of a group

- University of Texas (Austin), Algebra, Number Theory, Combinatorics Seminar (2010) Aspects of Nonabelian Group Based Cryptography

Professor Kahrobaei supervised the following Doctoral students at the CUNY Graduate Center Mathematics Department:

- Maggie Habeeb (since 2009). Graduated November 2011.
- Bobby Koupparis (since 2010). Expected graduation 2012.
- Ha Lam (Since 2011)
- Lisa Bromberg (since 2011)
- Bianca Sosnovski (since 2010) (Second supervisor).

Professor Kahrobaei was also a PhD Thesis Examiner at the CUNY Graduate Center Computer Science Department for M.Chen, Monte Carlo RFID Library Location System (November, 2010).

Professor Kahrobaei supervised the following undergraduate research students:

- Kwasi James, Supported by Emerging Scholar Fellowship, Fall 2010-Spring 2011.
- Philip, Supported by NSF-AMP, Fall 2010-Spring 2011.
- Daniel Bui, Identity based cryptography, Supported by NSF-STEP grant, Summer 2011.
- Dan Sadatian, "A Study on Estimation of Computational Complexity in Codes and Algorithms", Supported by NSF-STEP grant, Summer 2011.
- Kelsey Rauber, "Cloud Cryptography", Supported by NSF-STEP grant, Summer 2011.
- Stephanie Trochez, "Cloud Computing", Supported by NSF-STEP grant, Summer 2011.
- Damon Cham, Supported by Emerging Scholar Fellowship, Fall 2011
- Kelsey Rauber, Supported by Emerging Scholar Fellowship, Fall 2011
- Yi Ming Yu, Supported by Emerging Scholar Fellowship, Fall 2011
- Steven Lora, Supported by Emerging Scholar Fellowship, Fall 2011
- Aboudra Doukour, Fall 2011
- Dennys Yambay, Supported by Emerging Scholar Fellowship, Fall 2011
- Amesha Husbands, Supported by City Tech Foundations, Summer 2010
- Jean Labatte, Zu En Mai, Supported by City Tech Foundations, Summer 2010
- Seyed Hamidreza Sadatian, Supported by City Tech Foundations, Summer 2010

Professor Kahrobaei organized the following:

- "Special Session on Groups, Geometry, Applications", American Mathematical Society 2011 National Joint Meeting, New Orleans, January 6-9, 2011.

Professor Kahrobaei also co-organized the following:

- "Special Session on Computer Algebra, Group and Applications", American Mathematical Society 2011 Spring Western Sectional Meeting, Las Vegas, USA, April 30-May1, 2011 (with Ben Fine and Gerhard Rosenberger).
- Manhattan Group Theory Day II, CUNY Graduate Center, December 3, 2010 (with G.Baumslag, A.Miasnikov, V.Shpilrain and S.Ushakov).
- Manhattan Group Theory Day III, CUNY Graduate Center, December 9, 2011 (with G.Baumslag, A.Miasnikov, V.Shpilrain and S.Ushakov).
- Co-Organizer National Joint American Mathematical Society 2012 Meeting, Special Session on Groups, Algorithm, Complexity and Theory of Security (January 4-7, 2012) (with M.Habeeb) Boston, MA
- Co-organizer of AWM Anniversary Conference at ICERM: "40 Years and Counting: AWM's

Celebration of Women in Mathematics" Brown University (September 17-18, 2011) Special Session in Geometric Group Theory with Moira Chas

- Co-Organizer of American Mathematical Society 2011 Fall Eastern Sectional Meeting, Special Session on Mathematical Aspects of Cryptography and Cyber Security (September 10-11, 2011) (with Ben Fine, Gerhard Rosenberger) at Cornell University, Ithaca
- Organizer and Founder of New York Women in Mathematics and Computing Network conference, March 3, 2012 and April 20, 2012
- Organizer of American Mathematical Society Meeting, 2010 Eastern Spring Special Session, "Groups, Computations, Applications" New Jersey Institute of Technology, Newark (May 2010)

Professor Kahrobaei is a member of the Editorial Board of International Journal of Open Problems in Computer Science and Mathematics. She is also a Panel Member for the research projects of the PSC CUNY Grants in Computer Science and Mathematics, Research Foundation of City University of New York (2010, 2011).

Professor Kahrobaei was elected to serve in AMS and MAA committee of teaching assistants and part time instructors (February 2010-January 2013). She was also a mentor for the Association for Women in Mathematics Mentor Network (since Spring 2008) and a member of Graduate Council, CUNY Graduate Center, Computer Science Department representative, since 2010.

Janet Liou-Mark:

Published the following article:

- "The implementation of peer assisted learning workshops in precalculus: An approach to increasing student success", Journal of Mathematics and Computer Education, 44(3), 249-259(2010) (with A.E. Dreyfuss and L. Younge).

Professor Liou-Mark also published the following books:

- "Learning to Teach Mathematics and Science Through Peer Leading", New York State Mathematics Association of Two-Year Colleges Annual Conference Ithaca, New York (April 2010) (with F. Aline, I. Bary, A.E. Dreyfuss, W. Lau, S. Lora, Y. Marcellus, C. Pua, A. Reynoso, J. Young, L. Younge and K. Yu).
- "The Companion for the first Year at City Tech", ISBN: 978-1-4507-2147-9(2010) (with L. Aguirre, A.E. Dreyfuss and J. Sears).

Professor Liou-Mark presented the following talks:

- "Peer-Led Team Learning – The Workshop Model", Long Island University. Brooklyn, NY. September 15, 2010 (with A. E. Dreyfuss).
- "Engaging Activities for Peer-Led Sessions: A Workshop on How to Create Modules." Presented at New York State Mathematics Association of Two-Year Colleges, Region IV Conference, Nassau Community College, October, 2010 (with F. Aline, A. E. Dreyfuss, R. Clarke, E. Constant, S. Lora, Y. Marcellus, A. Reynoso, J. Young and K. Yu).

Professor Liou-Mark presented the poster "Creating and sustaining an interdisciplinary STEM culture at City Tech", PKAL/Keck National Colloquium, Washington, DC, October, 2010 (with R. A. Blake, R. D. Lansiquot), the poster "Research, Reflect, Plan: NSF ADVANCE IT Catalyst Grant at New York City College of Technology, CUNY", CUNY Aspiring Women Scientists 2010 Forum, New York, NY, September, 2010 (with B. August, R. A. Blake, P. Brown, A. E. Dreyfuss, V. Gitman and D. Kharobaei), and the poster "The navigation by mentoring and leadership program at City Tech", CUNY Aspiring Women Scientists 2010 Forum, New York, NY, September 2010 (with R. A. Blake, A. E. Dreyfuss, R.Lansiquot).

Satyanand Singh:

Published the book “Visualizing Calculus by Way of MapleTM: An Emphasis on Problem Solving”, McGraw-Hill 2011 (with N. Benakli and A. Taraporevala).

Hans Schoutens:

Dr. Schoutens was awarded PSC-CUNY grant #64466-00 42: The group scheme of an Artin algebra (\$3,990).

Professor Schoutens published the following paper:

- “Classifying singularities up to analytic extensions of scalars is smooth”, *Annals of Pure and Applied Logic* 162(2011), 836-852.

Professor Schoutens presented the following talks:

- "O-minimalism", Midwest Model Theory Meeting, Columbus, OH, May 21-23 2011.
- "O-minimalism", CUNY Logic Workshop, NY, March 18, 2011.
- "How elementary is o-minimality?", OSU Logic Seminar, Columbus, OH, January 20, 2011.
- "Homological conjectures in mixed characteristic: asymptotic versions. Part I", CUNY Commutative Algebra and Algebraic Geometry Seminar, New York, NY, September 24, 2010.
- "Homological conjectures in mixed characteristic: asymptotic versions. Part II", CUNY Commutative Algebra and Algebraic Geometry Seminar, New York, NY, November 5, 2010.
- "Higher dimensional Ax-Kochen-Ershov transfer principles", CUNY Logic Workshop, New York, NY, September 3, 2010.

Professor Schoutens acted as a referee for the *American Journal of Mathematics*, *Illinois Journal of Mathematics*, *Turkish Journal of Mathematics*, *Communications in Algebra*, *Journal of Logic and Analysis*, *Compositio Mathematica* and *Journal of Algebra*.

Professor Schoutens supervised the following Doctoral students at the CUNY Graduate Center:

- C. Li.
- S. Hwang.
- A. Stout.

Arnavaz Taraporevala:

Published the book “Visualizing Calculus by Way of MapleTM: An Emphasis on Problem Solving”, McGraw-Hill 2011 (with N. Benakli and S. Singh).

Thomas Tradler:

Published the following papers:

- “Homotopy DG Algebras Induce Homotopy BV Algebras,” *J. Homotopy Relat. Struct.* 6 (2011), no. 1, 177–182 (with John Terilla and Scott O. Wilson).
- “A Chen model for mapping spaces and the surface product,” *Ann. Sci. Éc. Norm. Supér.* (4) 43 (2010), no. 5, 811–881 (with Grégory Ginot and Mahmoud Zeinalian).
- “Algebraic string bracket as a Poisson bracket,” *J. Noncommut. Geom.* 4 (2010), no. 3, 331–347 (with Hossein Abbaspour and Mahmoud Zeinalian).
- “Algebras over Cobar(coFrob),” *J. Homotopy Relat. Struct.* 5 (2010), no. 1, 15–36 (with Gabriel C. Drummond-Cole and John Terilla).

Professor Tradler edited the book “Deformation Spaces,” Aspects of Mathematics 40, Vieweg+Teubner, 2010, ISBN: 978-3-8348-1271-1, Thomas Tradler, Hossein Abbaspour, Matilde Marcolli.

Professor Tradler presented the following talk:

- “Higher Hochschild complexes and the equivariant Chern character” at Graduiertenkolleg Mathematische Strukturen in der modernen Quantenphysik of the Georg-August-University Göttingen, on February 3, 2011.

Huseyin Yuce:

Dr. Yuce was awarded a NSF-CCLI/TUES grant as a principal investigator (\$199,559 for 2010-2012) for the project “The Brooklyn Waterfront 2050”. He was awarded a STATinMED Research Inc. Grant as a PI (\$10,000 for 2010-2011) for the project “Rare Event Analysis in Outcomes Research”. He was also awarded a NSF-ATE grant as a co-PI STEM Coordinator for the project “Fuse Lab: Collaborative Education for Tomorrow’s Technology in Architecture, Engineering & Construction” (\$887,322 for 2011-2014). Professor Yuce was also awarded a PSC-CUNY Research Grant as a PI for 2010-2011.

Professor Yuce published the following paper:

- “Cost and clinical consequences of stress/single-photon emission computed tomography testing with specific medications”, Journal of Medical Economics, Vol. 14, No. 4 (2011), 433-439 (with O. Baser, J. Spalding, S. Kothari and M.L. Monsalvo).

Professor Yuce presented the following talk:

- “Perturbation Methods for Vibration of Moderately Elliptical Plates” at the International Conference on Applied Mathematics, Modeling and Computational Science (AMMCS) in Waterloo, Canada, July 25-29, 2011.

Professor Yuce presented a poster titled “Differences in outcomes measures of diabetes patients using an insulin device and a conventional human insulin vial/syringe” at the 16th Annual International Conference of ISPOR (International Society for Pharmacoeconomics and Outcomes Research) in Baltimore, MD, May 21-25, 2011.

Professor Yuce served on the Research Abstract Review Committee for the ISPOR 13th Annual European Congress held on November 6-9, 2010 in Prague, Czech Republic.

Lin Zhou:

Dr. Zhou was awarded a PSC-CUNY Grant PSCOOC-41-143 (2010-2011): A Mathematical Analysis of Models of Wormlike Micellar Solutions (\$3325).

Professor Zhou published the following paper:

- “Probing Shear-Banding Transitions of the VCM Model for Entangled Wormlike Micellar Solutions Using Large Amplitude Oscillatory Shearing (LAOS) Deformations”, Journal of Non-Newtonian Fluid Mechanics, Volume 165, Issues 21-22, pp. 1462-1472, November 2010 (with L.Pamela Cook and Gareth H. McKinley).

Professor Zhou presented the following talks:

- "Unusual Fluids: Properties, Uses, Mathematical Models", Applied math Seminar, Mathematics Department, New York City College of Technology, CUNY, May 12, 2011.

- “Complex Fluids: A Model and Analysis”, The Graduate Center, CUNY Applied Math Seminar, April 29, 2011.
- “Large Amplitude Oscillatory Shear and Elastic Wave Propagation in the VCM Model for Wormlike Micellar Solutions”, Minisymposium, The Society of Rheology 82nd Annual Meeting, Santa Fe, NM, October 24-28, 2010.
- “Unusual Fluids: Properties, Uses and Mathematical Models”, WISE (Women in Science and Engineering) program, William Paterson University, Wayne, September 29, 2010.

PHYSICS

This newsletter summarizes the achievements of the Physics Departments for the academic year 2010-2011. A number of activities have taken place within the Physics Department that contributed to the increasing research efforts within our College. City Tech students have been involved in this process in several ways, including participating in research projects as well as seminars.

Prof. Kezerashvili chaired the **Eighth Annual Poster Session** on November 18, 2010 for Faculty and Students. Many faculty members contributed a poster, in many cases in collaboration with students.

Several faculty members contributed to the success of the **Fifth Annual City Tech Research Conference**. Prof. Kezerashvili presented a plenary titled *Can we move photons?* Profs. Berman, Ferrogli, Gelman, Ossola and Delgado presented talks in the Physics parallel session. Many faculty members participated and helped in the organization. Several students involved in research with Physics faculty also participated to the Emerging Scholar Poster Presentation.

A number of **Research Grants** were awarded to Physics Faculty. PSC-CUNY grants for 2010-2011 were awarded to Profs. Berman, Boyko, Gelman, Lufeng, Ossola and Vazquez-Poritz. Applications to NSF grants led to successful funding of two additional NSF grants, awarded to Profs. Ferrogli and Ossola.

The **City Tech Center for Theoretical Physics (CTP)**, established in the summer of 2010, completed its first year of activities. The CPT is a unified research and teaching center focused on fundamental physics. The primary mission of the CTP is to foster and promote excellence in theoretical physics research with significant focus on mathematical physics, computational physics, condensed matter physics, particle physics, nuclear physics, and astrophysics. The CTP also aims to educate graduate and undergraduate students in theoretical and computational physics and to communicate its activities to the general public through public lectures and other outreach activities. The CTP provides a seminar series, supports collaborative research between members of the CTP and other academic institutions worldwide, supports graduate and undergraduate students' research.

Several guests have been invited to visit our college for research collaborations with our faculty and to present seminars within the Joint Math and Physics Colloquium and the Physics Seminar in Theoretical Physics: among them Lilia Anguelova (Univ. of Cincinnati), Philip Kim (Columbia University), Blake Bullock (James Webb Space Telescope), Klaus Ziegler (Universitaet Augsburg, Germany), Claudio Maccone (International Academy of Astronautics, Paris, France), Boris Altshuler (Columbia University), David Snoke (Univ. of Pittsburgh), Christopher Pope (Texas A&M), Christopher Aubin (Fordham University), Natalia Zimbovskaya (Univ. of Puerto Rico), Gregory Gabadadze (New York University), Matthew Strassler (Rutgers Univ.), Roberto Bonciani (LPSC Grenoble, France), Thomas Cohen (Univ. of Maryland), Steve G. Greenbaum (Hunter College, CUNY), Robert D. Pisarski (Brookhaven National Laboratory). The seminars have been coordinated By Profs. Berman and Vazquez-Poritz.

Numerous research papers have been published by the Physics faculty in prestigious peer-reviewed journals such as Physical Review, Physics Letters, Advances in Space Research, Nanotechnology, Philosophical Transactions of Royal Society, Acta Astronautica, Solid State Communications, Journal of High Energy Physics. In addition, our faculty gave presentations on major national and international conferences world-wide: their contributions appeared on the conference Proceedings. The Physics faculty also made numerous presentations at the college and university level and given invited talks at colloquia and seminars at various institutions. Several members of the Physics faculty have been reviewers for prestigious peer-reviewed journals such as Physical Review, Physical Review Letters, Advances in Space Research, Physics Letters, Applied Physics, Recent Patents on Space Technology, High Energy Physics.

Individual Faculty Research Activity

Oleg Berman:

PSC CUNY Grant, July 2010 – June 2011: COLLECTIVE PROPERTIES OF QUASIPARTICLES IN LAYERED GRAPHENE STRUCTURES

Publications:

A. Gothandaraman, S. Sadatian, M. Faryniarz, **O. L. Berman**, and G. V. Kolmakov, “Application of Graphics Processing Units (GPUs) to the Study of Non-Linear Dynamics of the Exciton Bose-Einstein Condensate in a Semiconductor Quantum Well”, IEEE Trans., Proceedings of the 2011 Symposium on application of accelerators in high-performance computing, 68-71 (2011).

O. L. Berman, R.Ya. Kezerashvili, and G. V. Kolmakov, “Introduction to Nonlinear Phenomena in Superfluid Liquids and Bose-Einstein Condensates: Helium, Semiconductors and Graphene”, Contemporary Physics **52**, 319–340 (2011).

O. L. Berman and R. Ya. Kezerashvili, "Restricted Three Body Problem in Semiconductor Heterostructure", Few-Body Syst. **50**, 407–411, 2011.

O. L. Berman, V. S. Boyko, R. Ya. Kezerashvili, and Yu. E. Lozovik, “Electromagnetic Wave Propagation in Two-Dimensional Photonic Crystals”, the Chapter 5 in the book “Electromagnetic waves”, pp. 83–104 (2011).

O. L. Berman, R. Ya. Kezerashvili, Yu. E. Lozovik, D. W. Snoke, R. Balili, B. Nelsen, L. Pfeiffer, and K. West, “Spatial condensation of trapped polaritons in graphene and semiconductor structures”, Superlattices and Microstructures, **49**, pp. 331-336 (2011).

O. L. Berman, R. Ya. Kezerashvili, and Yu. E. Lozovik, “Drag effects in a system of electrons and microcavity polaritons”, Physical Review B, **82**, 125307 (2010).

O. L. Berman, R. Ya. Kezerashvili, Yu. E. Lozovik, and D. W. Snoke, “BEC and superfluidity of trapped polaritons in graphene and quantum wells embedded in a microcavity”, Philosophical Transactions A of the Royal Society, Invited Review Article in the Special Issue on Graphene, Phil. Trans. R. Soc. A **368**, pp. 5459-5482 (2010).

O. L. Berman, V. S. Boyko, R. Ya. Kezerashvili, A. A. Kolesnikov, and Yu. E. Lozovik, “Graphene-based photonic crystal”, Physics Letters A **374**, pp. 4784–4786 (2010).

Presentations:

O. L. Berman, “Bose-Einstein Condensation of microcavity Polaritons And Drag Effect”, Fundamental Optical Processes in Semiconductors (FOPS 2011), Lake Junaluska, North Carolina, USA, August 01-05, 2011.

O. L. Berman, “Graphene-based photonic crystal” APS March Meeting 2011 (Condensed Matter Section), Dallas, Texas, March 21 – 25, 2011

O. L. Berman, “Drag effects in a system of electrons and microcavity polaritons”, APS March Meeting 2011 (Condensed Matter Section), Dallas, Texas, March 21 – 25, 2011.

O. L. Berman, “Graphene-based two-dimensional and one-dimensional photonic crystals”, invited talk at the international conference “Physics of Quantum Electronics” (PQE 2011), Snowbird, Utah, USA, January 2 – 6, 2011

Vladimir Boyko:

PSC CUNY Grant, July 2010 – June 2011: TWIN GROWTH IN NANOCRYSTALLINE MATERIALS

Publications:

O. L. Berman, **V. S. Boyko**, R. Ya. Kezerashvili, and Yu. E. Lozovik, “Electromagnetic Wave Propagation in Two-Dimensional Photonic Crystals”, the Chapter 5 in the book “Electromagnetic waves”, pp. 83–104 (2011).

O. L. Berman, **V. S. Boyko**, R. Ya. Kezerashvili, A. A. Kolesnikov, and Yu. E. Lozovik, “Graphene-based photonic crystal”, Physics Letters A **374**, pp. 4784–4786 (2010).

Andrea Ferroglia:

Publications:

V. Ahrens, **A. Ferroglia**, M. Neubert, B. D. Pecjak, and L. L. Yang, "Precision Predictions for the $t\bar{t}$ Production Cross Section at Hadron Colliders", Phys. Lett. B, 702, 135–141, (2011).

R. Bonciani, **A. Ferroglia**, T. Gehrmann, A. von Manteuffel, and C. Studerus "Two-Loop Leading Color Corrections to Heavy-Quark Pair Production in the Gluon Fusion Channel," JHEP 1101, 102 (2011).

R. Bonciani, **A. Ferroglia**, T. Gehrmann, A. von Manteuffel, C. Studerus, "Two-Loop Corrections to Top-Antitop Production at Hadron Colliders", PoS ICHEP2010 098 (2010).

A. Ferroglia and U. Haisch, "Chromomagnetic Dipole-Operator Corrections in $B \rightarrow X \gamma$ at $O(\beta_0 \alpha_s^2)$ ", Physical Review D 82, 094012, (2010).

Presentations:

A. Ferroglia, Top theory - resummed calculations, Standard Model Benchmarks at High-Energy Hadron Colliders, DESY Zeuthen, Germany, June 15-17, 2011.

A. Ferroglia, Top-quark pair production beyond NLO, Heavy Particles at the LHC, ETH Zurich, January 5-7, 2011.

Boris Gelman:

PSC CUNY Grant, July 2010 – June 2011: THE TRIPLE-ALPHA PROCESS: TWO- AND

THREE-BODY SECTORS

Presentations:

Boris Gelman, Poster presentation "Polarized nucleon-nucleon scattering and large Nc QCD", The 19th Particles and Nuclei International Conference, Massachusetts Institute of Technology, Cambridge, MA, 07/24-07/29/2011

Lufeng Leng:

PSC CUNY Grant, July 2010 – June 2011: INVESTIGATION ON EXTENDED REACH GIGABIT PASSIVE OPTICAL NETWORK USING RAMAN AMPLIFICATION

Roman Kezerashvili:

Publications:

R. Ya. Kezerashvili and J.F. Vazquez-Poritz, "Bound orbits of solar sails and general relativity", *Advances in Space Research* 46, 346-361 (2010).

M. R. Gochitashvili, **R. Ya. Kezerashvili**, and R. A. Lomsadze, "Excitation of Meinel and the First Negative Band System at the Collision of Electrons and Protons with the Nitrogen Molecule", *Physical Review A* 82, 022702 (2010).

R. Ya. Kezerashvili and J.F. Vazquez-Poritz, "Drag force on solar sails due to absorption of solar radiation", *Advances in Space Research* 48, 1778-1784 (2011).

O. L. Berman, **R. Ya. Kezerashvili**, and G. V. Kolmakov, "Introduction to Nonlinear Phenomena in Superfluid Liquids and Bose-Einstein Condensates: Helium, Semiconductors and Graphene", *Contemporary Physics* 52, 319–340 (2011).

O. L. Berman and **R. Ya. Kezerashvili**, "Restricted Three Body Problem in Semiconductor Heterostructure", *Few-Body Syst.* 50, 407–411, 2011.

O. L. Berman, V. S. Boyko, **R. Ya. Kezerashvili**, and Yu. E. Lozovik, "Electromagnetic Wave Propagation in Two-Dimensional Photonic Crystals", the Chapter 5 in the book "Electromagnetic waves", pp. 83–104 (2011).

O. L. Berman, **R. Ya. Kezerashvili**, Yu. E. Lozovik, D. W. Snoke, R. Balili, B. Nelsen, L. Pfeiffer, and K. West, "Spatial condensation of trapped polaritons in graphene and semiconductor structures", *Superlattices and Microstructures*, 49, pp. 331-336 (2011).

O. L. Berman, **R. Ya. Kezerashvili**, and Yu. E. Lozovik, "Drag effects in a system of electrons and microcavity polaritons", *Physical Review B*, 82, 125307 (2010).

O. L. Berman, **R. Ya. Kezerashvili**, Yu. E. Lozovik, and D. W. Snoke, "BEC and superfluidity of trapped polaritons in graphene and quantum wells embedded in a microcavity", *Philosophical Transactions A of the Royal Society*, Invited Review Article in the Special Issue on Graphene, *Phil. Trans. R. Soc. A* 368, pp. 5459-5482 (2010).

O. L. Berman, V. S. Boyko, **R. Ya. Kezerashvili**, A. A. Kolesnikov, and Yu. E. Lozovik, “Graphene-based photonic crystal”, Physics Letters A 374, pp. 4784–4786 (2010).

Presentations:

R. Ya. Kezerashvili, Trions and Quatrons in Semiconductor Coupled Quantum Wells, APS March Meeting 2011 (Condensed Matter Section), Dallas, Texas, March 21 – 25, 2011.

R. Ya. Kezerashvili, Invited seminars, “Solar Sail to test Fundamental Physics”, **November 8, 2010**, Queens College, CUNY, NY; **March 4, 2011**, North Carolina Central University, NC, USA; **17 March, 2011**, University of Strathclyde, Glasgow, UK

R. Ya. Kezerashvili, Using a Solar Sail Mission to test Fundamental Physics, The Second International Symposium on Solar Sailing, ISSS2010, New York, USA, July 20-22, 2010.

R. Ya. Kezerashvili, Restricted three body problem in semiconductor heterostructure. The 21st European Conference on Few-Body Problem in Physics, Salamanca, Spain, August 29th –September 3rd, 2010.

German Kolmakov:

Publications:

A. Gothandaraman, S. Sadatian, M. Faryniarz, O. L. Berman, and **G. V. Kolmakov**, "Application of Graphics Processing Units (GPUs) to the Study of Non-Linear Dynamics of the Exciton Bose-Einstein Condensate in a Semiconductor Quantum Well", IEEE Trans., Proceedings of the 2011 Symposium on application of accelerators in high-performance computing, 68-71, (2011).

Ari Maller:

Publications:

Stewart, Kyle R.; Kaufmann, Tobias; Bullock, James S.; Barton, Elizabeth J.; **Maller, Ariyeh H.**; Diemand, Jürg; Wadsley, James, “Orbiting Circumgalactic Gas as a Signature of Cosmological Accretion”, The Astrophysical Journal, Volume 738, Issue 1, article id. 39 (2011).

Stewart, Kyle R.; Kaufmann, Tobias; Bullock, James S.; Barton, Elizabeth J.; **Maller, Ariyeh H.**; Diemand, Jürg; Wadsley, James, “Observing the End of Cold Flow Accretion Using Halo Absorption Systems”, The Astrophysical Journal Letters, Volume 735, Issue 1, article id. L1 (2011).

Gregory Matloff:

Publications:

G. L. Matloff, “Red Giants and Solar Sails,” JBIS, Vol. 63, pp. 74-77 (2010)

G. L. Matloff and M. Wilga, “NEOs as Stepping Stones to Mars and Main-Belt Asteroids,” Acta Astronautica, Vol. 68, pp. 599-602 (2011).

G. L. Matloff, “The Solar Photon Sail: History, Current Status, and Future Prospects,” Space Chronicle: JBIS, Suppl. 2, Vol. 64, pp. 58-71 (2011).

G. L. Matloff, “The Golden Apples of the Sun,” Chap. 8 in Advances in Engineering Research, Vol. 1, ed. M. Petrova, Nova science Publishers (2011).

Presentations:

G. L. Matloff, “Giant/Red-Dwarf Binaries: New SETI Targets and Implications for Interstellar Migration,” IAC-10.4.19. Presented at 61st International Astronautical Congress, Prague, Czech Republic, Sept. 27-Oct. 1, 2010.

G. L. Matloff, “Deflecting Earth-Threatening Asteroids Using the Solar Collector: An Improved Model.” Presented at Missions to the Outer Solar System and Beyond: Seventh IAA Symposium on Realistic, Near-Term Scientific space Missions, Aosta, Italy, July 11-14, 2011.

G. L. Matloff, “Interstellar Light Sailing.” Presented at 100 Year Starship DARPA/NASA Symposium, Orlando, FL, Sept. 30-Oct. 2, 2011.

Giovanni Ossola:

NSF Research Grant, July 2009 – June 2011: AUTOMATED COMPUTATION OF ONE-LOOP SCATTERING AMPLITUDES

PSC CUNY Grant, July 2010 – June 2011: BHABHA SCATTERING, A LUMINOSITY CANDLE FOR ELECTRON-POSITRON COLLIDERS

Publications:

T. Garoni, **G. Ossola**, M. Polin, A.D. Sokal, "Dynamic Critical Behavior of the Chayes-Machta Algorithm for the Random-Cluster Model. I. Two Dimensions", Journal of Statistical Physics, J. Statist. Phys. 144, 459-518 (2011).

G. Cullen, N. Greiner, A. Guffanti, J.P. Guillet, G. Heinrich, S. Karg, N. Kauer, T. Kleinschmidt, M. Koch-Janusz, G. Luisoni, P. Mastrolia, **G. Ossola**, E. Pilon, T. Reiter, M. Rodgers, F. Tramontano, I. Wigmore, , "Modern Feynman Diagrammatic One-Loop Calculations," PoS(CPP2010)003 (2010).

G. Heinrich, **G. Ossola**, T. Reiter and F. Tramontano, “Tensorial Reconstruction at the Integrand Level,” JHEP 1010, 105 (2010).

Presentations:

G. Ossola, “Automation of One-Loop Calculations with Golem/Samurai”, Northwestern University, Evanston, IL, LoopFest X: Radiative Corrections for the LHC and future colliders, May 12-14, 2011.

G. Ossola, Ecole de Physique des Houches, Les Houches, France, workshop “Physics at TeV colliders”, May 30-June 8, 2011.

G. Ossola, “Automation of One-Loop Calculations with Golem/Samurai”, Europhysics Conference on High-Energy Physics EPS-HEP 2011, Grenoble, France, July 21-27, 2011.

G. Ossola, "Automation of One-Loop Calculations with Golem/Samurai", Ustron, Poland, XXXV Int. Conference of Theoretical Physics "Matter to the Deepest", September 12-18, 2011.

Justin Vazquez-Poritz:

PSC CUNY Grant, July 2010 – June 2011: PRECISION TESTS FOR GAUGE-GRAVITY DUALITY

NSF Research Grant, July 2010 – June 2013: CONSTRAINING GRAVITY DUAL MODELS OF STRONGLY COUPLED PLASMAS

Publications:

R. Ya. Kezerashvili and **J.F. Vazquez-Poritz**, "Bound orbits of solar sails and general relativity", *Advances in Space Research* 46, 346-361 (2010).

R. Ya. Kezerashvili and **J.F. Vazquez-Poritz**, "Drag force on solar sails due to absorption of solar radiation", *Advances in Space Research* 48, 1778-1784 (2011).

MD Razikul Islam and **J.F. Vazquez-Poritz**, "Strongly-coupled quarks and colorful black holes", *Proceedings of the Meeting of the Division of Particles and Fields of the American Physical Society*, Brown University, Providence RI, August 9-13 2011.

Presentations:

J.F. Vazquez-Poritz, "An infinite family of non-singular G2 manifolds", *String-Math 2011*, University of Pennsylvania, Philadelphia PA, June 6-11 2011.

J.F. Vazquez-Poritz, "Strongly-coupled quarks and colorful black holes", *Meeting of the Division of Particles and Fields of the American Physical Society*, Brown University, Providence RI, August 9-13 2011.

SOCIAL SCIENCE FACULTY LECTURE SERIES

Organized by Professors Laureen Park and Howard Sisco, the Social Science Faculty Lecture Series continues to provide a regular forum for the full-time professors in the department to give a talk on past, present and/or future research while at the same time receiving feedback, support and encouragement from their peers about their work. The following faculty presented during the 2010/2011 academic year:

- Prof. Kyle Cuordileone presented “Lost Behind the Iron Curtain: The Strange Odyssey of Noel Field”
- Prof. Daniel Capruso presented “Retrograde Memory in Cerebrovascular Disease and Alzheimer’s Disease”
- Prof. Peter Parides presented “Legacies of the Atomic Bomb: Past, Present, Future”
- Prof. Pa Her presented “Family Socialization and Individual Processes associated with Teenage Marriage among Hmong American Women”
- Prof. Edward Kaplan presented “Keynes, the Great Depression and Today’s Economy”

SOCIAL SCIENCE FACULTY GRANT AWARDS

Professor Lisa Pope Fischer received a PSC-CUNY grant award to fund her fieldwork in Budapest, Hungary on elderly Hungarian women’s re-interpretation of societal change. Prof. Pope Fischer’s research seeks to gain insight into the plight of these women and understand how societal change and identity construction link with Socialism and Capitalism to frame an understanding of their personal experiences.

SOCIAL SCIENCE FACULTY BOOKS

Gerardi, S. (Ed.). (2010). *A brief survey of the sociological imagination* (third edition). New York, NY: Kendall Hunt.

McDonald, H. (2011). *Creative Actualization*. Value Inquiry Book Series, New York, NY: Rodopi.

Panayotakis, C. (2011). *Remaking scarcity: From capitalist inefficiency to economic democracy*. London, England: Pluto Press.

SOCIAL SCIENCE FACULTY PUBLICATIONS

Brand, W. (2010). Hume on the value of pride. *Journal of Value Inquiry*, 44, 341-350.

Capruso, D. X., & Hamsher, K. deS. (2011). Constructional ability in two-verses three-dimensions: Relationship to spatial vision and locus of cerebrovascular lesion. *Cortex*, 47, 696-705.

Capruso, D. X., & Hamsher, K. deS. (In Press). Retrograde memory in cerebrovascular disease and Alzheimers’s disease. *Journal of Stroke and Cerebrovascular Diseases*, 1-10.

Cuordileone, K. A. (2011). The torment of secrecy: Reckoning with American communism and anticommunism after Venona. *Diplomatic History*, 35(4), 615-642.

Doviak, E. & MacDonald, S. (2010). Forecasting the New York State economy with “terraced” VARs and coincident indices. *New York Economic Review*, (Fall, 2010), 14-34.

- Gerardi, S. (2010, June). Functionalism 2.0 – Rethinking an America tradition of conservative thought. *The Socjournal: A new media journal of sociology and society*. Retrieved from: <http://www.sociology.org/lead/functionalism-20-rethinking-america-tradition-conservative-thought>.
- Gerardi, S. (2011). Family income and fathers' education as a function of human capital. *International Journal of Academic Research*, 3(5), 85-88.
- Hannum, R. (2010). "Ponzi, Charles," in *Encyclopedia of American Immigration*, edited by Carl L. Bankston III. Pasadena, CA: Salem Press.
- Hannum, R. (2011). "Ostrom, Elinor," in *Encyclopedia of Environmental Issues*, edited by Craig W. Allin. Pasadena, CA: Salem Press.
- Hannum, R. (2011). "Alan Greenspan: Economist and Federal Reserve chairman (1987-2006)," in *Great Lives from History: Jewish Americans*, edited by Rafael Medoff. Pasadena, CA: Salem Press.
- Hannum, R. (2011). "Recession of 1937-1938," in *The Thirties in America*, edited by Thomas Tandy Lewis. Pasadena, CA: Salem Press.
- Hannum, R. (2011). "Henry Clay Frick: American industrialist, entrepreneur, and art patron," in *Great Lives from History: The Incredibly Wealthy*, edited by Howard Bromberg. Pasadena, CA: Salem Press.
- Her, P. & Dunsmore, J. C. (2011). Parental beliefs about emotions are associated with early adolescents independent and interdependent self-construals. *International Journal of Behavioral Development*, 35(4), 317-328.
- McDonald, H. (2010). The end of the end of history. *Bajo Palabra: Revista de filosofía*, 4, 253-268.
- McDonald, H. (2010). Dewey's theory of values. In L. A. Hickman, M. C. Flamm, K. P. Skowronski and J. A. Rea (Eds.) *The Continuing Relevance of John Dewey. Reflections on Aesthetics, Morality, Science, and Society*, Amsterdam/New York: Rodopi Value Inquiry Book Series.
- Panayotakis, C. (2010). Capitalism, Socialism and Economic Democracy: Reflections on Today's Crisis and Tomorrow's Possibilities. *Capitalism Nature Socialism*, 21(4).
- Parides, P. K. (2011). Science and technology. In William D. Pederson's (Ed.). *Blackwell companions to American history: A companion to Franklin D. Roosevelt*. West Sussex, England: Wiley-Blackwell.
- Park, L. (2010). Opening the Black Box: Reconsidering Needs Theory through Psychoanalysis and Critical Theory. *International Journal for Peace Studies*, 15(1), 1-23.
- Pope Fischer, L. (2010). Turkey backbones and chicken gizzards: Women's food roles in post-socialist Hungary. *Food and Foodways*, 18, 1-28.
- Rodriguez, E. M. (2010). At the intersection of church and gay: A review of the psychological research on gay and lesbian Christians. *Journal of Homosexuality*, 57(1) 5-38.
- Sisco, H. & Reilly, R. R. (2010). Effect of item level social desirability on factor structure stability. *International Journal of Selection and Assessment*, 18(3), 305-309.

Zylstra, G. D. (2011). Whiteness, freedom and technology: The racial struggle over Philadelphia's streetcars, 1859-1867. *Technology and Culture*, 52(4), 678-702.

SOCIAL SCIENCE FACULTY PRESENTATIONS

Albrecht, V., Kubeck, J. E., & Lyon, J. (June, 2010). Minors' Rights Versus Major Punishment: Juvenile Justice and International Developments. Paper presented at the Ninth Biennial International Conference co-sponsored by John Jay College of Criminal Justice: Societies in Transition - Balancing Security, Social Justice, and Tradition, Marrakech, Morocco.

Doviak, E. & MacDonald, S. (September, 2011). Who Defaults on Their Home Mortgage? Paper presented at the annual conference of the New York State Economics Association, Rochester, NY.

Doviak, E. & MacDonald, S. (September, 2011). Who Enters the Foreclosure Process? Paper presented at the annual conference of the New York State Economics Association, Rochester, NY.

Doviak, E. & MacDonald, S. (April, 2011). Who defaults? Who goes into foreclosure? Paper presented at the University of New Haven Research Forum, West Haven, CT.

Kubeck, J. E., Albrecht, V., & Lyon, J. (March, 2010). Children in Penal Systems: An International Comparison. Poster presented at the Annual Meeting of the Eastern Psychological Association (EPA), Brooklyn, NY.

MacDonald, S. (October, 2011). The current financial crisis and the Occupy Wall Street movement. Invited presentation given to the English Department faculty and students at the New York City College of Technology, Brooklyn, NY.

Pope Fischer, L. (November, 2011). Traces of Communist legacy in post-Socialist Hungary: The kitschification of material culture. Paper presented at the annual meeting of the American Anthropology Association, Montreal, Canada.

Pope Fischer, L. (November, 2011). Circulating (a)political memory through time and space; Elderly Hungarian women's reinterpretation of post-Socialist change. Paper presented at the annual meeting of the American Anthropology Association, New Orleans, LA.

Rodriguez, E. M. (2011, January). Identity conflict and integration between sexual orientation and religious/spiritual beliefs. Poster presented at the second annual Society for Personality and Social Psychology pre-conference on the Psychology of Religion and Spirituality, San Antonio, Texas.

Rodriguez, E. M. (2011, May). The Intersection of fundamentalist religious beliefs and mental health treatment. Invited lecture to be presented during Psychiatric Grand Rounds at Lincoln Medical and Mental Health Center, Bronx, NY.

Rodriguez, E. M. (2011, January). Understanding the connection between fundamentalist religious beliefs and mental health treatment. Invited lecture presented during Psychiatric Grand Rounds at North Central Bronx Hospital, Bronx, NY.

Rodriguez, E. M. (2010, November). Religious conservatism meets clinical psychology: Issues for patients and therapist. Invited lecture presented to pre-doctoral psychology interns and externs at Kings County Hospital Center, Brooklyn, NY.

Stanev, S. & Hannum, R. (September, 2011). To the question of Anglo-American planes, fallen during 1943-44 in Bulgaria and in the areas controlled by the Bulgarian army. Invited paper presented at Shumen University, Shumen, Bulgaria.

Sterns, A., & Kubeck, J. E. (May, 2010). International Similarities in Job Satisfaction and Age: A Meta-analysis. Poster presented at the Annual Convention of the Association for Psychological Science (APS), Boston, MA.

ACKNOWLEDGEMENTS

- Delaram Kahrobaei: Chair
- Andrew Douglas: Designed newsletter, compiled submitted departmental research reports.
- Tshombe Walker: Compiled scholarly accomplishments for African American Studies.
- Laina Karthikeyan: Compiled scholarly accomplishments for Biology.
- Anna H.-J. Do: Compiled scholarly accomplishments for English.
- Ann Delikan: Compiled scholarly accomplishments for Humanities.
- Samar ElHitti, Laura Ghezzi: Compiled scholarly accomplishments for Mathematics.
- Giovanni Ossola, Oleg Berman: Compiled scholarly accomplishments for Physics.
- Eric M. Rodriguez: Compiled scholarly accomplishments for Social Science.