Annual Report
2012-2013
Chemistry Department

IA. Peer-Reviewed Faculty Publications

Fadi Bou-Abdallah


Maria Hepel


* SUNY Potsdam undergraduate student

IB. Other Faculty Publications (including WEB news, discussions, reviews, editorials, etc.)

Fadi Bou-Abdallah


Maria Hepel

II. Papers Delivered by Faculty and Students at Conferences and Conference Attendance. Faculty Presenter and Students Presenter names underlined

IIA. Professional Meetings

Fadi Bou-Abdallah


2. **Fadi Bou-Abdallah**, “New Insights Into the Binding of Ferrous Ions to Ferritin, Transferrin to Transferin Receptor as Revealed by Isothermal Titration Calorimetry.” University Paris 7- Denis Diderot, Paris, France, June 12, 2012 (*invited talk*)


9. Matthew Mehlenbacher and Fadi Bou-Abdallah. An ITC Study of Iron(II) and Zn(II) Interaction With Transferrin. 4th local CSTEP programs-17th Annual Career Exploration Symposium, St Lawrence University, Canton, NY, February 2, 2013 (*poster presentation*)


**David Gingrich**


**Maria Hepel**


8. Chris Li, John Proetta, Dustin Bland and Maria Hepel, “Synthesis of Exfoliated Graphene Flakes” The 4th Annual Symposium and Undergraduate & Graduate Research. The Northern New York Local Section of the American Chemical Society April 20, 2103, St. Laurence University, Canton, NY.

**Anthony Molinero**


### Clifford Rossiter

1. Christopher Crecco and Clifford Rossiter, Enzyme Based Bio-sensors *4th Undergraduate and Graduate Chemistry Research Symposium of the Northern New York Local Section of the American Chemical Society, Canton, NY, April 20, 2013*

### Martin Walker

2. Martin Walker: “Sharing educational resources through the LearnChemistry wiki.” *Biennial Conference on Chemical Education, State College, PA, August 1, 2012.* (Invited oral presentation)
3. Martin Walker: “Data-rich chemistry inside Wikipedia and other wikis”, part of the Herman Skolnik Award Symposium at the 244th National Meeting of the American Chemical Society, Philadelphia, PA August 21, 2012. (Oral presentation, by invitation from the award winner.)
4. Brandon Finnie, John Welch: “A Safer Synthesis of Vinyl Sulfides.” Poster presented at the *3rd Undergraduate and Graduate Chemistry Research Symposium of the Northern NY Local Section of the American Chemical Society, Canton, NY, April 20, 2013*
5. Kassandra Rosado, Laurene Tuider, Amy Smith: “Use of Copper in Coupling Organic Compounds.” Poster presented at the *3rd Undergraduate and Graduate Chemistry Research Symposium of the Northern NY Local Section of the American Chemical Society, Canton, NY, April 20, 2013*
6. Matthew Muller: “Computer Classification of Organic Reactions.” Poster presented at the *3rd Undergraduate and Graduate Chemistry Research Symposium of the Northern NY Local Section of the American Chemical Society, Canton, NY, April 20, 2013*

### IIB. Presentations at the Learning & Research Fair, SUNY Potsdam, April 17, 2013 & Academic Campus Festival, April 11-12, 2013

### Fadi Bou-Abdallah


### David Gingrich

1. Brittany Steimle, Rudy Conrad, Kierstin Clark, Huidong Yang, David Gingrich "Cloning the Histidine-rich Loop of the CrMTP1 Zinc Transporter of Chlamydomonas reinhardtii", *SUNY*
2. **Bobbi Lauzon**, Fancy McBride, David Gingrich, "Cloning & Characterizing the Putative Zinc-transporting Gene CrMTP1from Chlamydomonas reinhardtii"; SUNY Potsdam Learning and Research Fair; SUNY Potsdam, Potsdam, NY; April 17, 2013.

**Maria Hepel**

1. **Taylor Hughes** and Maria Hepel. “Graphene for Anticancer Drug Delivery.” SUNY Potsdam Learning and Research Fair; SUNY Potsdam, Potsdam, NY; April 17, 2013.

2. **Chris Li**, Dustin Blake and Karel Lacina, “Raman Study of Graphene Sensory Films” SUNY Potsdam Learning and Research Fair; SUNY Potsdam, Potsdam, NY; April 17, 2013.

3. **Michelle Robinson**, “3-Nitrotyrosine as a Biomarker for NO Mediated Tissue Damage” SUNY Potsdam Learning and Research Fair; SUNY Potsdam, Potsdam, NY; April 17, 2013.

4. **John Proetta** and Maria Hepel, “Future of Graphene-Composite Nanomaterials”. Academic Campus Festival, April 11-12, 2013

5. **Taylor Hughes**, “Applications of Graphene Oxide for Controlled Anticancer Drug Delivery”. Academic Campus Festival, April 11-12, 2013

6. **Kayla Caldarelli**, “Graphene Applications in Fuel Cells”. Academic Campus Festival, April 11-12, 2013


9. **Christopher Li**, John Proetta and Maria Hepel, “Graphene-Based Biosensors”. Academic Campus Festival, April 11-12, 2013


11. **Sarah Carsman**, “Graphene Oxide-Based Gene Therapy” Spectroscopy in Science”. Academic Campus Festival, April 11-12, 2013

**Clifford Rossiter**

1. **Christopher Crecco** and Clifford Rossiter, Enzyme Based Bio-sensors, Learning and Research Fair, SUNY Potsdam April 17, 2013

2. **Heather Crapo, Julie Haynes**, and Clifford Rossiter “Development of New Antibiotics for the Treatment of Mastitis” Learning and Research Fair, SUNY Potsdam April 17, 2013

**Martin Walker**

1. **Brandon Finnie, John Welch**: Poster, “A Safer Synthesis of Vinyl Sulfides.” Learning and Research Fair, SUNY Potsdam April 17, 2013

2. **Kassandra Rosado, Laurene Tuider**: Poster, “Use of Copper in Coupling Organic Compounds.” Learning and Research Fair, SUNY Potsdam April 17, 2013
III. Receipt of Grants/Awards and Grants Applied For

**Fadi Bou-Abdallah**

1. NSF-Faculty Early Career Development (CAREER) Program: Heteropolymer Ferritins Structure-Function Studies: A Research and Education Program. July 2012 - ($495,812) – (PI) Not funded
5. Research and Creative Endeavor Award – Spring 2013 - Characterization of Peptide Drug Candidates – ($1000) – (PI) – Awarded
6. Faculty Kilmer Apprenticeship Award – Fall 2012 and Spring 2013 – ($300) – Awarded
7. CSTEP Summer Pilot Program - Spring 2013 – ($630) – Awarded

**Frederick B. Kilmer Undergraduate Research Apprenticeships-Fall 2012 and Spring 2013**

1. **Matthew Mehlenbacher** “Characterization of Homopolymer and Heteropolymer Ferritin Redox Reactions”. Awarded ($500.00)
2. **Sean Atkinson** “Examining Ferritin L-Subunit Mutations as a Cause for Neuroferritinopathy”. Awarded ($500.00)

**Other Internal Research Awards**

2. Presidential Scholar Award – (2011-2014) awarded to Sean Atkinson for the project: “Iron Acquisition by the human opportunistic pathogen Bacillus cereus” (Fadi Bou-Abdallah- Research Mentor) – ($600/year) – Awarded

**David Gingrich**

1. Kilmer Undergraduate Research Apprenticeship, “The expression cloning of the CrMPT1 Histidine-rich loop”; Brittany Steimle, David Gingrich; 1 year; $500, Awarded.
2. Training Support Program, Promega Corporation, $312 towards lab supplies for CHEM 425/426, Awarded.

**Maria Hepel**

1. Recipient of 2012 Northeast Region Award for Achievements in the Chemical Sciences, October 1, 2012, Rochester, NY
2. Distinguished Professor, SUNY Albany, May 2012
4. National Science Foundation - SUNY/RF Research Collaboration Fund “Functional SERS Nanoprobes for DNA Detection and Imaging: $50,000 (submitted)
Annual Report 2012-2013
Chemistry Department

5. Kilmer Undergraduate Research Award, Student: Mitchell Robinson, “3-Nitrotyrosine as a Biomarker for Diabetes” $500

Clifford S. Rossiter

2. Kilmer Undergraduate Research Apprenticeship, SUNY Potsdam, Spring 2013 – Fall 2013, “Enzyme-based Biosensors” with Christopher Crecco Awarded $500
3. National Science Foundation (NSF) “RUI: Design and Synthesis of Zn(II) Selective Chelators to Investigate Zn (II) Homeostasis in Cells” – Not Funded

Martin Walker

1. CSTEP Summer Research Fellowship: Laurene Tuider and Kassandra Rosado, funded.

IV. New Programs; Courses and/or Laboratories Proposed or Revised

Fadi Bou-Abdallah

1. Created a new webpage (http://fadibouabdallah.wordpress.com/) and updated relevant information
2. Converting ALL Physical Chemistry Fall 2012 lecture notes to PowerPoint presentations.
3. Revised the Physical Chemistry Laboratory Manuals I and II (Chem 451- Fall semester 2012 and Chem 452- Spring Semester 2012).
4. Revised the Physical Chemistry Lecture and Laboratory materials to include lectures on “The Theory and Use of Isothermal Titration Calorimetry (ITC) and Differential Scanning Calorimetry (DSC)” for both semesters (Fall 2012 and Spring 2013).

Maria Hepel

1. Developed experiments & written lab manuals for 4 new projects in analytical courses involving use of Raman Spectroscopy
   • Resonance Raman & AFM Characterization of Transition Metal Oxide Semiconductors
   • Raman Scattering Spectroscopy of Pharmaceutical Tablets
   • Raman Scattering Spectroscopy of Amino Acids
   • Single-Layer Graphene Films Derived From Graphene-Oxide
2. New experiment “Monitoring Hydrolysis of Sucrose Using Polarimetry” was also introduced into analytical lab.

David Gingrich

1. Continued the refinement and development of new of laboratories in Biochemistry 1 and 2 and General Chemistry 2 in accord with the NSF CCLI "The Development of Biochemistry Laboratories Centered on Hemoglobin" award.
2. POGIL (process oriented guided inquiry learning) exercises were investigated in Biochemistry 2 lecture in order to increase group-learning opportunities during lecture.
Anthony Molinero

1. Prepared the General Chemistry Laboratory Manual for fall and spring. Also created an instructor’s edition for the first time in the fall, which included sample lab data, answer keys, and grade sheets.
2. Designed and wrote a new forensic lab manual. This included 9 new lab exercise and pre-lab exercises.
3. Revised 3 Forensic Science PowerPoint chapter lectures, which covered 5 major topics over the semester course.

Clifford Rossiter

1. Inorganic Chemistry Lecture and Lab, Spring 2012
   a. Revised lecture notes to demonstrate connectivity between both the chapters covered in class and elements of chemistry in other sub-disciplines.
   b. Revised Moodle site for the class by adding better navigational tools, linking to valuable external resources, and posting sample test and homework answers.
   c. Implemented new lab into the curriculum “Biocatalysis with Sol-Gel Encapsulated Acid Phosphatase”
   d. Modified “The Borane-Amine Adduct BH₃:NH₂C(CH₃)₃” lab to include a molecular modeling component utilizing Spartan modeling software.
2. Organic Chemistry Lab
   a. Revised PowerPoint Presentations to focus more on experimental theory and technique.
   b. Revised Moodle site for the class by adding better navigational tools, posting prelab lectures, and linking to valuable external resources.
3. Chem100
   a. Completely overhauled the class structure by implementing a new textbook and teaching philosophy into the curriculum.
   b. New Learning Objectives:
      • The overall goal of this class is to give students a rudimentary knowledge of chemistry with a particular focus on historical significance.
      • Summarize the basic concepts of atomic theory.
      • Utilize the Periodic Table of the Elements to predict properties of the elements.
      • Recognize various types of chemical phenomena, including bonding, molecular shape, spectra and possible reactions.
      • Balance chemical reactions using stoichiometry.
      • Understand the fundamental role chemistry played in historical events.
   c. Two “pop culture” science books were utilized to illustrate core principles in the class and demonstrate chemistry’s relevance to student’s lives. These books are: The Elements A visual exploration of Every Known Atom in the Universe and Napoleon’s Buttons How 17 molecules changed history.
   d. Created a new set of lecture notes and presentations as well as a Moodle site to facilitate student learning.

Martin Walker

1. Revised Organic Chemistry Lecture + Lab
2. Updated lab manual and workbook and Moodle site.
3. New active learning research module in Spring lab sequence, on synthesis of coumarin.
Annual Report  
2012-2013  
Chemistry Department

4. “The Sustainable World” (CHEM 321)  
5. Updated content for online course

V. Service

VA. Administrative/Committee Assignments

Fadi Bou-Abdallah

1. Library Liaison for the Chemistry Department (2007-2012)  
2. Member of the Arts and Sciences Council, SUNY Potsdam (2009-2012)  
3. Member of the Interdepartmental Programs Committee (SIIM) (2011-2014)  
4. Member of the Student Affairs Committee (2013-2016)

David Gingrich

1. Health Professions Advisory Committee (HPAC) – Chair/Advisor  
2. College Radiation Safety Officer  
3. College Radiation Safety Committee  
4. TLTR representative (Faculty Senate)  
5. Chemistry Safety Committee (Safety Coordinator)

Maria Hepel

1. Served as a reviewer of 27 proposals submitted to Empire Innovation Program, (EIP), SUNY Albany, May-June 2013  
2. Member of the Arts & Sciences Council, SUNY Potsdam  
3. Member of the Council of Chairs, SUNY Potsdam  
5. Member of the Robert Hill ’77 Endowment Administrative Committee * Reviewer of proposals.  
6. Chair of the Chemistry department (Sep. 2006-till present).  
7. SUNY Potsdam Teacher Education Advisory Committee Member

Anthony Molinero

1. Faculty Advisor for Gamma Sigma Epsilon (Chemistry Honor Society)  
2. Academic Coordinator for Men’s Hockey  
3. General Education Committee  
4. Health Professions Advisory Committee

Clifford S. Rossiter

1. A Major Affair, October 2013 - Chemistry major.  
2. Served on the Academic Programs & Curriculum  
3. Served as UUP representative to chemistry.  
4. Served as department representative on Faculty Senate.
5. Served as faculty textbook representative.

**Martin Walker**

1. Distance Learning Curriculum Advisory Committee
2. Departmental Safety Committee
3. Health Professions Advisory Committee
4. Library Liaison for the Chemistry Department

**VB. College-Related Public Service**

**Fadi Bou-Abdallah**

1. Helped organize the 2nd Annual Chemtoberfest- SUNY Potsdam - October 19, 2012
3. Organized the 4th Undergraduate and Graduate Chemistry Research Symposium for the Northern New York Local Section of the American Chemical Society. St Lawrence University, Canton, NY, April 20th, 2013.
6. Major Affair, SUNY Potsdam, November 2012
8. Presented a talk at the LTEC event: “Get your Research on: From idea to Design to Result-Integrating Undergraduate Research Across the University- October 16, Kellas 103, SUNY Potsdam. The title of the talk was: "Iron-Protein Biochemistry: Moving Forward from Basic Research to Applications".

**David Gingrich**

2. HPAC representative at A Major Affair, October 24, 2012.
3. HPAC representative at most 2012/2013 Admissions Open House events.
4. Faculty advisor for the SUNY Potsdam American Society for Biochemistry and Molecular Biology (ASBMB) Undergraduate Affiliate Network (UAN) chapter (for biochemistry students).
5. Faculty advisor for Pre-Health Club (SGA).

**Maria Hepel**

1. Lectured on Raman Spectroscopy and demonstrated new experiments with Raman Spectroscopy use for the following classes:
   a. PHYS 494 Physics Seminar
   b. BIOL 303 Organizations & Function of Plants
   c. BIOL 151 General Biology
2. Participated in the “A Major Affair” on October 24, 2012
3. Participated in several Open Houses and the Academic & Student Services Fair, SUNY Potsdam
4. Design and maintain website: www2.potsdam.edu/hepelmr and prepare materials for the Chemistry department webpage
5. Served as a reviewer of proposals for Robert Hill ’77 Endowment for “Environmental Science
7. Helped with the organization of Chemtoberfest Day, October 19, 2012

Anthony Molinero

4. Presented lecture on “NMR” to the Instrumental Analysis class, Spring 2013.
5. Summer Courses Taught, Summer 2012

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<th>Credits</th>
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<th>Students</th>
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<td>CHEM 106</td>
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<td>Session 2</td>
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Clifford Rossiter

1. Science Olympiad
2. High School Science Lab Day

Martin Walker

1. Principal organizer for the college's Fifth Triennial Academic Festival, April 10-13, 2013, with the theme “Making the Future.”
3. Helped with Chemtoberfest!, October 19, 2012

VC. Professional Service

Fadi Bou-Abdallah

1. Reviewed a proposal to the National Science Foundation (NSF, SusChem program)-March 2013
2. Reviewed 12 research papers submitted to seven different international scientific journals: Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (× 3); Biochimica Biophysica Acta (× 4); Journal of Biological Inorganic Chemistry; Journal of Inorganic Biochemistry; Advanced Drug Delivery Reviews; Proteins; Journal of Molecular Liquids
4. Prepared the Final Research Report to NSF for the Major Research Instrumentation Grant Award (July 2012)
5. Received the 2013 President’s Award for Excellence in Scholarship and Creative Activities (May 9, 213).

**David Gingrich**

1. Served as judge at ASBMB Undergraduate Student Research Poster Competition, ASBMB Annual Meeting, April 20, 2013, Boston, MA.

**Maria Hepel**

2. Served as a reviewer of 62 papers during 2012-2013 academic year submitted to the following international journals:
   
3. Prepared Annual Report to NSF from Raman Spectroscopy Grant Activities and developed the website with Raman spectra results, May 15, 2013
4. Reviewer of the proposals to The National Science Foundation
5. Member of the Editorial Boards of:
   
   • “Polish Journal of Environmental Studies”
   • “Open Electrochemistry Journal”
   • “Journal of Molecular Imaging & Dynamics”
   • “Journal of Nanomedicine & Nanotechnology”
   • “Mediterranean Journal of Chemistry”

**Martin Walker**

1. Councilor and Webmaster for the Northern New York section of the American Chemical Society
2. Webmaster for the Northeast Regional Committee of the American Chemical Society
3. Editorial boards for three journals
4. Chemistry Central Journal (impact factor 3.28)
5. Journal of Cheminformatics (impact factor 3.42)
6. ARKIVOC or “Archive of Organic Chemistry” (impact factor 1.252)
7. Reviewed three papers for ARKIVOC, and one grant proposal for IUPAC
8. Main administrator on an educational website for the Royal Society of Chemistry
Janice Westerling

1. Served on the National Association of Scientific Materials Managers’ (NAOSMM) Certification Committee, which reviews applications for certification as a Scientific Materials Manager (CSMM).
2. Member of NAOSMM since 1999.

VD. Community Service

Fadi Bou-Abdallah

1. Chair of the Northern New York, Local Section of the American Chemical Society (ACS) (2012-Present).
2. Offered a SOAR Course in Fall 2012 titled: “Chemistry from The Humorous and Fun side”. September 29, 2012 (12:30-2:00 pm, Stowell 211). SOAR (Stimulating Opportunities After Retirement) is a member-directed learning group sponsored by SUNY Potsdam through the Center for Lifelong Education and Recreation (CLEAR).

David Gingrich

1. Sound Engineer, Potsdam Church of the Nazarene

Maria Hepel

1. Analysis of samples for Dr. J. Trybula from the Biology Department using Atomic Force Microscopy & Raman Spectroscopy.

Anthony Molinero

1. Potsdam Church of the Nazarene: Adult Sunday-School Teacher.
2. Potsdam Church of the Nazarene: Worker for youth program

Clifford S. Rossiter

1. American Chemical Society, Member

Martin Walker

1. Worship team guitarist at New Hope Community Church, Potsdam, NY

Janice Westerling

1. Participant in the 2012 “Swim a Mile for Hospice” of St. Lawrence County Hospice. Raised funds the one-mile event in Hannawa Falls, NY, August 8, 2012.
VE. Other Service not mentioned above.

**Fadi Bou-Abdallah**

1. Member, American Chemical Society (ACS)
2. Member, International BioIron Society (IBIS)
3. Member, Sigma Xi Honor Society
4. Member, Council on Undergraduate Research (CUR)
5. Editorial board member, Biochimica Biophysica Acta (BBA GEN)

**David Gingrich**

1. Chemistry Department liaison for 2012 and 2013 Stowell remodeling project.

**Maria Hepel**

1. Prepared the Chemistry Department Annual Report for 2011-2012
2. Organized moving Research & Analytical Labs; due to summer renovation
3. Performed Marshal duties at the 2013 commencements
4. Served as an advisor to 38 students in each semester

**Anthony Molinero**

1. Chemistry Department Assessment Coordinator
2. General Chemistry Lab Coordinator (manage 9 lab sections/per week) which includes upgrading and revising the lab manual, collecting data form all sections to create grade sheets, coordinating information with all instructors, and making sure everything is ready to go at the beginning of each lab section. This included 2 evening lab sections.

**Martin Walker**

1. “Mining data from Wikipedia and elsewhere” Digital Humanities Roundtable, SUNY Potsdam LTEC, November 9, 2012. (Panel presentation with other faculty)

**Janice Westerling**

1. Secretary, SUNY Potsdam Chemistry Department Safety Committee.

VI. Chemistry Seminar Program

The Chemistry Department Seminar program consists, in part, of invited speakers and student seminars. The visitors from graduate schools are a crucial part of our seminar program and very beneficial to our students. Time is provided for our students to meet with each visitor and to discuss graduate school opportunities. The list of visitors and their seminar topics are listed below along with our student seminars.
SEMINAR SPEAKERS FOR FALL 2012

**Professor Kestas Bendinskas**  
Department of Chemistry, Hobart and William Smith Colleges  
"September 18, 2012.

**Professor Peng Chen**  
"Single-Molecule Dynamics of Nanocatalysis and Bioinorganic Chemistry"  
September 25, 2012

**Professor Patrick Holland**  
"The Global Nitrogen Cycle and Nitrogen Fixation by Iron Complexes"  
October 23, 2012

**Professor Xin Jie Chen**  
"The Mechanism of Mitochondrial Degeneration in Aging Cells"  
October 30, 2012

SEMINAR SPEAKERS FOR SPRING 2013

**Yan-Yeung Luk**  
"Water-driven organic reactions and applications in folding random coil proteins into alpha-helices"  
February 5, 2013

**Maria DeRosa**  
"Development of Aptamer based Biosensors and “Smart” Materials"  
February 26, 2013

**Robert Hondal,**  
"Selenium: Its Chemistry and Biology Among the Elements of Life"  
March 5, 2013

**William Dichtel**  
"Structurally Precise Organic Materials and Interfaces"  
March 12, 2013

**Jimmy Wu**  
"Sulfur and Indole: Old Friends, New Methods"  
April 9, 2013

**Todd D. Krauss,**  
"Nanoscience and Nanotechnology: When Size Matters"  
May 7, 2013
STUDENT SEMINARS FOR SPRING 2013

Kathleen Morrissey  
*Chemistry of Amber-Woody Odorants: Ambrox and Camphor*  
April 2, 2013

Heather Crapo  
*Dynamin-Dependent Clathrin-Mediated Endocytosis and Lipid Mixing of HIV-1*  
April 2, 2013

Bobbi Lauzon  
*The Chemistry of Amromadendrane Sesquiterpenoids*  
April 23, 2013

Matthew Muller  
*A Comparison and Synthesis of Positron Emission Tomography Labeling Agents using 18F Fluoride Ion.*  
April 23, 2013

Kathryn Tylock  
*Copper-Catalyzed Arylation of Arenes*  
April 30, 2013

Michelle Robinson  
*Analysis of Endocrine Disrupting Parabens From Environmental Pollutants*  
April 30, 2013

VII. 2013 Chemistry Major Graduates – 8 graduates

B/S  
Bannon Megan  
Clarke, Mariah  
Crapo, Heather  
Grant, Windy  
Mayville, Mitchell  
Peachey, Janet  
Robinson, Michelle  
Steimle, Brittany

Biochemistry Major Graduates – 1 graduate

Tylock, Kathryn

VIII. Other Notable Activities

Fadi Bou-Abdallah

1. Faculty research advisor of one Presidential Scholar, Sean Atkinson and 2 other SUNY Potsdam undergraduate students: Deneen Cole and Matthew Mehlenbacher.

3. Started two new research collaborations with (1) Prof. Sami F. Noujaim at Tufts University, School of Medicine, Molecular Cardiology Research Institute and (2) Prof. Robert P. Doyle at Syracuse University.

4. Participated in Four ACS sponsored Webinars:
   1- ChemClub-Local Section Webinar, May 22, 2013
   2- The Future of Graduate Education in the Chemical Sciences, Feb 20, 2013
   3- Annoying: The Science of What Bugs Us, November 29, 2012
   4- Doctoral Glut Dilemma: Are There Solutions? November 8, 2012


6. Participated in the following LTEC event: “Get your Research on: From idea to Design to Result- Integrating Undergraduate Research Across the University- October 16, Kellas 103, SUNY Potsdam.

Maria Hepel

1. Supervised research of postdoctoral research Dr. Karel Lacina from Masaryk University, Brno, Czech Republic during Summer 2012.

2. Served as a research advisor in CHEM 497 of 7 undergraduate students: Michell Robinson, Anthony Arena, Samuel Durham, Christopher Li, Samantha Matthews, Dustin Blake and Megan Malone.

3. Continued research collaboration with Professor Jerzy Radecki from the Polish Academy of Sciences, Olsztyn, Poland and hosted his visit at SUNY Potsdam.

4. Participated in Workshops:
   • “Raman for Graphene Characterization”, March 27, 2013
   • “Routine & Advanced FTIR Analysis of Proteins” May 15, 2013
   • “The Frontier of 3D Raman Imaging” March 12, 2013
   • “Application of Raman Spectroscopy in Biomedical Diagnostics” October 17, 2012
   • Advances in Raman Spectroscopic Characterization of Carbon Nanomaterials” September 20, 2012
   • Hosted a visit of Professor Bradd Lister from RPI, who was on an external NSF-CCLI grant evaluator on April 3-4, 2013 and organized student/faculty poster session.

David Gingrich

1. Webinars (sponsored by NAAHP and AAMC):
   • “Changes to the 2014 AMCAS Application”, February 7, 2013.
   • “Resources for MCAT2015”, May 21, 2013.

2. Attended the Clarkson Health Professions Fair on Wednesday, November 7, 2012.

3. Hosted radioactive materials and security inspection (NYSDH), December 2012.

4. Joined Northeast Association of Advisors for the Health Professions (NEAAHP) as aid in role as pre-health advisor (HPAC).

Anthony Molinero

1. Managed the Nuclear Magnetic Resonance (NMR) spectrometer which includes weekly liquid N$_2$ fills, biannual liquid He fills, making all in-house repairs, and coordinating repairs done by the instrument company (which occurred several times this year).
2. Rebuilt an old capillary Gas Chromatograph for departmental use that was initially nonfunctional.
3. Rebuilt an old HPLC that was not working for use.
4. Member of the American Chemical Society (ACS)
5. Received the “President's Award for Teaching”