

## CURRICULUM VITAE

**Kestutis G. Bendinskas**

December 5, 2011

State University of New York at Oswego, Department of Chemistry, Oswego, NY 13126

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### **Profile**

A scientist and a teacher who is eager to learn and share obtained knowledge. An enthusiastic promoter of undergraduate research. Likes to work as a member of a team.

### **Professional Preparation**

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| •Mendeleev University of Chemical Technology, Moscow, Russia  | Environmental Sciences | Engineer of Chemical Technology, 05/1991 |
| •Bowling Green State University, Bowling Green, Ohio  | Photochemical Sciences | Ph.D., 12/1996                           |
| •Johns Hopkins University, Department of Biochemistry, School of Hygiene and Public Health, Baltimore, Maryland | Biochemistry           | Postdoctoral Studies, 08/1997            |

### **Appointments**

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|---|---------------|
| •Associate Professor, Department of Chemistry, State University of New York at Oswego, Oswego, New York   | 2007- present |
| •Assistant Professor, Department of Chemistry, State University of New York at Oswego, Oswego, New York   | 2003- 2007    |
| •Assistant Professor, Department of Physical Sciences, Kutztown University, Pennsylvania  | 2001-2003     |
| •Director of Biochemistry and Bio-organic Chemistry Laboratories, University of Notre Dame, Department of Chemistry and Biochemistry, Notre Dame, Indiana | 1997-2001     |

### **Publications (students underlined)**

1. Bendinskas, K., Harsch, A., Wilson, M. R., and Midden, R. W. Sequence-Specific Photomodification of DNA by an Oligonucleotide-Phenanthrohydrodioxin Conjugate, *Bioconjugate Chemistry*, 9, **1998**, 555-563.
2. Bendinskas, K., Dijiacomo, C., Krill, A., Vitz, E. Kinetics of Alcohol Dehydrogenase-Catalyzed Oxidation of Ethanol Followed by Visible Spectroscopy, *Journal of Chemical Education*, 82, 7, **2005**, 1068-1070.
3. Bendinskas, K., Hendershott, T., MacKenzie, J. Novel gamma-hydroxybutyrate, GHB, detection method, a patent filed with the USPO via NYRF-TTO, **2007**, re: R1574-230.
4. Miloski, K., Wallace, K., Fenger, A., Schneider, E., Bendinskas, K. Comparison of Biochemical and Chemical Digestion and Detection Methods for Carbohydrates, *American Journal of Undergraduate Research*, 7, 2, **2008**, 7-18.
5. Erin Simon, Katie Cook, Meredith R. Pritchard, Martha Bruch, Wayne Stripe, Kestutis Bendinskas, Glycosidation of Methanol with Ribose: An Interdisciplinary Undergraduate Laboratory Experiment, *Journal of Chemical Education*, 87, 7, **2010**, 739-741.
6. James A. MacKenzie, Kristen Roosa, Brooks B. Gump, Amy K. Dumas, and Kestutis Bendinskas, Plasma Prekallikrein Levels are Positively Associated with Circulating Lipid Levels and the Metabolic Syndrome in Children, *Applied Physiology, Nutrition, and Metabolism*, 35, **2010**, 518-525.
7. Robert E. Birdsall, Michael P. Kiley, Zaneer M. Segu, Christopher D. Palmer, Milan Madera, Brooks B. Gump, James A. MacKenzie, Patrick J. Parsons, Yehia Mechref, Milos V. Novotny,

and Kestutis G. Bendinskas\*, Effects of Lead and Mercury on the Blood Proteome of Children, **2010**, *Journal of Proteome Research*, 9, 4443–4453.

8. Kestutis Bendinskas, Patricia Sattelberg, Daniel Crossett, Andrew Banyikwa, and Daniel Dempsey, James A. MacKenzie, Enzymatic Detection of *Gamma*-Hydroxybutyrate (GHB) Using Aldo-keto Reductase 7A2, **2011**, *Journal of Forensic Science*, 56 (3), 783-787.

9. Gump, B. B., MacKenzie, J. A., Bendinskas, K., Morgan, R., Dumas, A. K., Palmer, C. D., & Parsons, P. J., Low-level Pb and Cardiovascular Responses to Acute Stress in Children: The Role of Cardiac Autonomic Regulation, **2011**, *Neurotoxicology and Teratology*, 33, 212-219.

10. Manuscript in print:

Brooks B. Gump, James A. MacKenzie, Amy K. Dumas, Christopher D. Palmer, Patrick J. Parsons, Zaneer M. Segu, Yehia S Mechref, and Kestutis Bendinskas, Fish Consumption, Low-Level Mercury, Lipids, and Inflammatory Markers in Children, **2011**, *Environmental Research*, XXX(X), XXX-XXX.

11. Manuscript in preparation:

"Immobilized metal affinity chromatography and human serum proteomics" for the Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences.

### **Synergistic Activities**

- Developing of a B.S. program in Biochemistry, a new major at SUNY at Oswego
- Developing non-traditional ways of teaching Biochemistry. The learning process for students includes not only lectures but also the writing of peer-graded conspectuses for each chapter covered, participation in peer-led discussions, essay type of tests coupled with take-home retests, and biochemistry labs that contain a significant inquiry based component and lack “cook book” recipes
- Developing a course of proteomics, a new high-tech course that includes the use of 2D SDS-PAGE and MALDI-TOF
- Using interactive personal response systems, “clickers”, in large classrooms
- Serving **Sigma Xi as a North East Associate Director, web and conference coordinator**
- Serving as **an editor of the Biochemistry section of the *American Journal of Undergraduate Research***

### **Collaborators & Professional Affiliations**

#### **(a) Collaborators:**

- James MacKenzie, Biological Sciences, SUNY-Oswego
- Brooks Gump, Department of Health and Wellness, Syracuse University
- Yehia Mechref, Chemistry, Texas Tech University

#### **Co-editor:**

- John A. Bumpus, Chemistry, University of Northern Iowa, co-editor of the Biochemistry section of the *American Journal of Undergraduate Research*.

#### **(b) Graduate and Postdoctoral Advisor:**

- Robert W. Midden, Chemistry, Bowling Green State University, Bowling Green, Ohio
- Lawrence Grossman, Department of Biochemistry, School of Hygiene and Public Health, Johns Hopkins University, Baltimore, Maryland

### (c) Research Advisees at Oswego:

•**Graduate, M.S.:** Tamara Nsouli (ApoE and Pb; current), Ellen Schneider (HS teacher, sugars' detection; summer 2008, grd. in 2009), Andrew Banyikwa (GHB: coupled enzymatic assay; grd. in 2009), Robert Birdsall (grd. in 2009 with thesis "Proteomic Study of Lead and Mercury effects in Adolescents"), Dan Dempsey (GHB project: SSR cloning; grd. in 2007); Erin Simon (glycosidation of ribose; grd. in 2007); Katie Miloski (sugar detection via chemical and biochemical means; grd. in 2007); John Merchant\* (co-advised by me, advised by Dr. Ouellette, grd. in 2007); Danielle Gilbert, (GHB project: SSR purification; grd. in 2006)

•**Undergraduate and H.S. students:** Fall 2011 (Yoshihiro Miura, Christyne Chmil, Yvaline Dorce, Kalib St. Ange, Jessica Mack, Spencer Saraf, Benjamin Weber, Alena Habrykawa\*), Summer 2011 (Yoshihiro Miura\*, Alena Habrykawa\*, Christyne Chmil, Yvaline Dorce, *John Sheaffer, Matthew Shampine*), Spring 2011 (David Buechel, Yoshihiro Miura\*, Frank Pierce, Kalib St. Ange, Patrick Wilson, Jacob Demarree, Fengrong Wang, Christyne Chmil, Yvaline Dorce), Fall 2010 (David Buechel, Yoshihiro Miura, Frank Pierce, Kalib St. Ange, Patrick Wilson, Jacob Demarree, Fengrong Wang) Summer 2010 (Frank Pierce, Kristen Roosa, Kalib St. Ange, *Charlene Murray, Victoria Taylor, Celalettin Topbas, Merve Begü GÖNÜL*), Spring 2010 (Eric Yeager, Jacob Demarree, Fengrong Wang, Frank Pierce, Patrick Wilson, Kristen Roosa, Kalib St. Ange, Lisa Augustus, Amber Wayne), Fall 2009 (Eric Yeager, Jacob Demarree, Fengrong Wang, Frank Pierce), Summer 2009 (Jacob Demarree, Tim Humisten\*, Eric Yeager, Andrew Camelio\*), Spring 2009 (Fengrong Wang, Bicheng Wu, Sarah Feddegon, Paul MacMahon, Mike Kiley), Fall 2008 (Tabitha Maier, Paul MacMahon, Mike Kiley), Summer 2008 Merck scholars (Tabitha Maier, Eric Yeager\*, Jenna Burgess\*), Greg Miller\* (oxidation of proteins), Nicolas Auwarter (HPLC), Mike Kiley (insulin), Summer 2007 Merck scholars (Dan Crosset, Thea Hassan\*, Kristen Roosa\*, Paul MacMahon), Sara Wagoner (labeling sugars), Robert Birdsall (human blood proteomics), Tia Hendershott (GHB detection, 2007), Summer 2006 Merck scholars (Robert Birdsall, Tia Hendershott, Michael Mastromauro\*, Patricia Sattelberg), Kelly Wallace (sucrose digestion), Ashley Fenger (invertase reaction), Jonathan Rutherford (insulin-proteomics), Katie Miloski (insulin-ELISA), Meredith Dumont (glycosidation- literature), Patricia Sattleberg (HPLC of proteins, 2005, SSR purification, 2006, 2007), Katy Cook (glycosidation of ribose, 2005, 2006), Jennifer Bushey (cloning of SSR, 2005), Lidia Alechina (GHB project, Summer 2004), Dan Dempsey (ADH project, Fall 2004), Kim Zeitz (nanotubes project, Spring 2004), Kate Waring (GHB project, 2003), Beulah Sherwood (size exclusion chromatography, Fall 2003), and Jennifer Novak (GHB project, Summer 2003)

\* co-advised by KB, supervised by another research advisor

### (d) Professional Affiliations

- American Chemical Society, member 1995-present
- Sigma Xi Scientific Society, member, Secretary of the local Chapter 1992-present

### Grants (current are in bold and pending are italicized)

#### •as a PI:

1. "The Biochemical Detection of Date Rape Drug, GHB, in Common Beverages", Faculty Enhancement Grant, 2003; received \$2,000
2. "Medicinal Effects of New Diabetes Drugs", Student/Faculty Collaborative Challenge Grant, with Katy Milosky, 2004; received \$2,500
3. "The Effects of Diabetes Drugs on Insulin Secretion by Beta-Pancreatic Cells", Grant Writing Incentive Grant, 2004; received \$3,000

4. "Application of human-brain succinic semialdehyde reductase for the date-rape drug, gamma-hydroxybutyrate (GHB), detection", Cottrell College Science Awards, Research Corporation, 2004; submitted for \$57,622
5. "Collaborative Undergraduate Research Projects on the Interface of Biology and Chemistry", Merck-AAAS, with Drs. Chepko-Sade and MacKenzie from Biology, 2004, submitted \$60,000
6. "Collaborative Undergraduate Research Projects on the Interface of Biology and Chemistry", Merck-AAAS, with Drs. Chepko-Sade and MacKenzie from Biology, 2005-2008, received \$60,000
7. The lecture series grant from Sigma XI, 2006, received \$400
8. The conference organization grant from Sigma XI, 2006, received \$500
9. The conference organization grant from Sigma XI, 2006, received \$2,000
10. "Development of the proteomic approach in studying diabetes", UUP-IDAP, 2006, received \$600
11. "Novel GHB detection method", with T. Hendershott, SFCCG, 2007, received \$3,000
12. "Mechanisms of Pb-induced Disregulation of Neuroendocrine and Cardiovascular Functioning in Children", with Gump, B.B., MacKenzie, J.A., NIH, 2008, submitted for \$208,153
13. "Lipoprotein and antioxidant status in the general population of children exposed to environmental lead", with Kristen Roosa, Frank Pierce, Marissa Wimer, SFCCG and SSP, received \$5,604
14. "The molecular mechanism and the causal direction of apolipoprotein E (apoE) –lead (Pb) interactions", NIH-NIEHS AREA R15 PI: Kestutis Bendinskas (SUNY-Oswego), co-I's or SP: James A MacKenzie (SUNY-Oswego), Alexander Soudackov (Penn State), Yehia Mechref (Texas Tech U), Brooks Gump (Syracuse U), Edward Berry (Upstate Medical U), Li-Shar Huang (Upstate Medical U), Stephan Wilkens (Upstate Medical U), Christopher T. Nomura (SUNY-ESF), submitted for \$419,215.
15. "Advanced study of lipoprotein E and lead", with Christyne Chmil and Tamara Nsouli, SFCCG and SSP; 2011; received \$9,200
16. *GRANT10991619 NIH AREA R15 ES020567 Elucidating Causes for Known Apolipoprotein E-Lead Associations, PI: Bendinskas, K. G., Co-I: MacKenzie, J. A., S.P.: Chroni, A., Stratikos, E., Gump, B. B., Cruickshank, J., Contento, A. L., Windstam, S. T., \$288,885 for 06/2012-05/2015. The goal of this proposal is to systematically explore the processes of apolipoprotein E and lead interactions at molecular and cellular levels. The binding of apoE isoforms to lead and the effects of lead on transcription, translation, and secretion of apoE in hepatocytes will be assessed.*

**•as a co-PI, co-I, or Senior Personnel:**

1. "Investigation of Medicinal Plants of the Democratic Republic of Congo Used to Treat Diabetes", Chemistry Fellowships, NSF 03-596; with Webe Kadima, 2004, submitted for \$330,507
2. "Investigation of Medicinal Plants of the Democratic Republic of Congo", Chemistry Fellowships, NSF 03-596; 2003; with Webe Kadima, submitted for \$228,668
3. "Acquisition of an Omniflex MALDI-TOF mass spectrometer and proteomics equipment for the establishment of a Mass Spectrometry /Proteomics facility at a primarily undergraduate institution", Major Research Instrumentation Program (MRI), NSF 04-511; with Anthony Ouellette(PI), Casey Raymond, Al Lackey, Martha Bruch, Webe Kadima, 2004; received \$249,850
4. "Lead and vascular reactivity to acute stress in children" National Institute of Environmental Health Sciences (NIEHS) AREA grant with Brooks Gump(PI) and James MacKenzie, 2007-2011, received \$205,741

5. (as Senior Personnel) NSF-MRI: Acquisition of an Ultracentrifuge for Undergraduate Research Training and Teaching” with James MacKenzie(PI), Timothy Braun, Webe Kadima, 2007-2009, received \$73,618
6. ”Lead and cardiovascular Dysregulation in Rural Latino Children: a New Partnership” National Institute of Environmental Health Sciences (NIEHS) Application for Supplement to Promote Partnerships for Environmental Public Health; grant with Brooks Gump(PI) and James MacKenzie, submitted for \$136,411
7. ”Global Climate Change and Energy Education: A Regional Prospective” NASA; grant with Alok Kumar (PI), Thomas Kubicki (co-PI), and Mathew Spindler(co-I), submitted for \$149,847
8. Administrative Supplement from CNCR for grant “Lead and Vascular Reactivity to Acute Stress in Children” (NIEHS R15ES015619-01) with Brooks Gump (PI) and James MacKenzie, 09/01/09 to 08/31/11, received \$96,895
9. “Purchase of a 400 MHZ NMR Spectrometer”, NSF-CI 09-546, PI-Larry Fuller, co-PI-Martha Bruch, Major Users: Joseph LeFevre, Webe Kadima, Fehmi Damkaci, Kestas Bendinskas, Carolina Ilie, 02/01/10 to 01/31/13, submitted for \$425,296
10. “Possibility Scholarships: A Transformative, Research Engagement Scholarship Program for students in STEM Fields”, NSF 09-567, PI- Rashid Manseur, Co-PI’s- Kestutis Bendinskas, Shashi Kanbur, David Valentino, Faculty Associate: James MacKenzie, 08/01/10-07/31/15, submitted for \$597,053
11. "Materials World Network: Synthesis and Characterization of Superparamagnetic Iron Oxide Core-shell Nanoparticles for Targeting Biomolecular Therapy and Multimodal Cancer Therapy”, NSF-MPS/DMR 1008141, PI-Adrian Ieta, co-PIs- Caroline Ilie, Kestutis Bendinskas, 2011-2013, submitted for \$442,492
12. **“A Local-Global Engagement Model for STEM Workforce Development”, NSF 09-567, PI- Shashi M Kanbur, co-PI: Lorrie Clemo, Fehmi Damkaci, Webe Kadima, A MacKenzie, Senior Personnel: Kestas Bendinskas, 2011-2016, received 599,705**
13. “Oswego SMILES (Science & Math Increased Learning Experiences in STEM)”, NSF 08-569, PI- Fehmi Damkaci, co-PI’s: Kestutis Bendinskas, Lorrie Clemo, Shashi M Kanbur, Jack Y Narayan, 2011-2016, submitted for \$998,244
14. “Materials World Network: Synthesis of Micrometric Superparamagnetic Magnetite for Health Applications”, NSF 10-588, PI- Adrian Ieta, co-PIs: Kestutis Bendinskas, Fehmi Damkaci, Carolina Ilie, 2011-2014, submitted for \$ 356,618
15. “MRI: Acquisition of an integrated UV-Vis spectrophotometer and quantitative real-time PCR system”, NSF 11-503, PI’s- Jenifer Cruickshank, Sofia Windstam, co-PI’s-Kestutis Bendinskas, James A MacKenzie, Senior Personnel-Erick Helquist, 2011-2013, submitted for \$68,085
16. *“Cost and Benefits of Children Consuming Fish: Low-level Hg Exposure and Systemic Inflammation”, NIH R21 RFA-ES-11-002, PI’s: Gump, MacKenzie, Co-PI’s: Bendinskas, Brann, Cowart, Driscoll, 2011-2014, submitted for \$440,107*
17. *“Oswego SMILES (Science & Math Increased Learning Experiences in STEM)”, NSF 08-569, PI- Fehmi Damkaci, co-PI’s: Kestutis Bendinskas, Lorrie Clemo, Shashi M Kanbur, Jack Y Narayan, 2012-2017, submitted for \$997,524*
18. *“Environmental Toxicants, Race, and Cardiovascular Disease Risk in Children” NIH-R01, Brooks Gump (PI) co-I’s: James MacKenzie and Kestutis Bendinskas, submitted for \$66, 907 (allocation for SUNY-Oswego)*

**•as a research advisor to a student PI:**

1. with Katherine Cook “Glycosidation of Carbohydrates”, 2004, received \$340
2. with Jennifer Bushey and Dr. James MacKenzie “Development of a Single Step Detection Method for Gamma Hydroxybutyrate”, received \$1000
3. with Kim Zeitz “Study of Biologically Assisted Solubility of Single-Wall Carbon Nanotubes”;

- 2003; received \$250
4. with Daniel Dempsey "Development of a New Biochemistry Laboratory Sequence"; 2003; submitted for \$500
  5. with Robert Birdsall "Lead Proteomics in Juveniles"; 2007; received \$1000
  6. with Paul MacMahon "GHB Detection Using ELISA"; 2008; received \$1000
  7. with Mike Kiley "ApoE Detection Using Western or ELISA in Juveniles"; 2008; received \$1000
  8. with Patrick Wilson and Jake DeMarree"; 2010; received \$2000
  9. **with Yoshihiro Miura and Yvaline Dorce; 2011: received \$1,000**

### Research Experience

- Graduate and Undergraduate Research Advisor, SUNY Oswego - Chemistry Department. Studying proteomics of serum in children of Oswego county who were exposed to lead and mercury in the environment. Extensively using procedures of biochemistry (2-D electrophoresis, RT-PCR, combinatorial selection, cloning, sequencing, purification of strains, Western, ELISA analyses, MALDI-TOF, etc.) and techniques of analytical and organic chemistry (UV-VIS-NIR, FTIR, HPLC, GC, NMR, etc.) Developed new date rape drug GHB detection method and filed for a patent. Supervised tens of students, published extensively, presented at international conferences, & received substantial grants. 2003-present
- Undergraduate Research Advisor, Kutztown University of Pennsylvania, Department of Physical Sciences. Studied oxidation- reduction processes involving NADH, PMS, and DCIP. Developed colorimetric assay for the detection of GHB. Worked on a quantitative assay for detection of a precursor of GHB, 1,4-butanediol in physiological samples using GC-MS. Supervised four undergraduates and helped them to prepare posters for a display at the local and regional level. 2001- 2003
- Undergraduate Research Advisor, University of Notre Dame, Department of Chemistry and Biochemistry. Studied DNA-PDHD conjugate's antiviral activity. Studied several different Grignard reactions and used the products in preparation of new DNA conjugates. Advised and supervised chemistry, biochemistry, and biology majors on their research projects. 1997- 2001
- Postdoctoral Fellow, Johns Hopkins University, School of Hygiene and Public Health, Biochemistry Department, Dr. Larry Grossman's group. Prepared plasmids containing a single thymine cyclobutane dimer site and a photocrosslinking agent nearby for the demonstration of a movement of UvrA<sub>2</sub>B DNA repair system along the substrates. Purified UvrA, UvrB, and UvrC proteins. Studied the above system using KMnO<sub>4</sub> mapping and photocrosslinking reactions. 1996- 1997
- Research Assistant, BGSU. Ph.D. dissertation research topic: "Directing Photosensitizers to Key Viral Targets Using Combinatorially Selected Oligonucleotides" under W. Robert Midden. Demonstrated selective binding of ds DNA to ss DNA target under physiological conditions. Cloned and sequenced selected DNA. Prepared DNA-photosensitizer conjugates, used radioactive labeling, and confirmed the sequence specific DNA target cleavage by an oligonucleotide-dihydrodioxin conjugate. Prepared an independent proposal "Effects of Damaging and Protecting Reagents on DNA Repair Capacity in Young and Old Human Lymphocytes." 1991- 1996

- Research Assistant, Mendeleev University of Chemical Technology. 1986- 1991  
Worked in the Laboratory of Ion Exchange studying processes of copper recovery from the EDTA containing wastewaters. Used a wide variety of analytical procedures to determine the environmental impact of contamination of air, water, and soil in the region of the mouth of Yauza River in Moscow. Participated in an environmental expedition in Polish Karpaty Mountains.

### **Teaching Experience**

- Assistant and now Associate Professor of Biochemistry, SUNY Oswego, Chemistry Department. Teaching biochemistry CHE 461/561/462/562 lectures and biochemistry CHE 360/461/561/462/562L laboratories. Used every other lecture period for the peer-led active cooperative learning of the chapter material introduced in a previous lecture. Introduced the peer-graded homework writing assignments. Used take-home retake exams as a teaching tool. Teaching Environmental Science CHE 300 for non-science majors using interactive “clicker” technologies. Teaching Proteomics CHE471/571, a new hi-tech biotechnology class and laboratory, studio style. Enforced a safe and comfortable laboratory work and study environment. 2003-present
- Assistant Professor of Biochemistry, Kutztown University, Department of Physical Sciences. Taught biochemistry CHM 310, CHM 312 lecture and biochemistry CHM 312, CHM 313 laboratory. Equipped and redesigned laboratories to exclude “cook book” types of experiments. Taught organic chemistry lab CHM 217. Taught introductory chemistry lecture CHM 020 and introductory chemistry laboratory CHM 021 for non-science majors. Used “Blackboard” for all of my courses. 2001- 2003
- Director of Biochemistry and Bio-organic Chemistry Laboratories, University of Notre Dame, Department of Chemistry and Biochemistry. Developed new laboratory experiments and computer simulations for undergraduate (224L, 247L, 248L, 341L, 461L) and graduate (624L) courses. Expanded research type experiments. Prepared a set of on-line pre-lab lectures, laboratory manuals, and tests for the courses. Directed graduate teaching assistants and undergraduate helpers. 1997- 2001
- Postdoctoral Fellow at Johns Hopkins University, School of Hygiene and Public Health. Trained three Ph.D. students for the Biochemistry Departments' lab rotations. Supervised an undergraduate student. 1996- 1997
- Teaching Assistant in Biochemistry Laboratories (CHEM 309, CHEM 447), BGSU. Had full responsibility for the laboratory: gave pre-lab lectures, prepared and gave exams, prepared lab and helped with experiments in biochemistry of lipids, proteins, carbohydrates and DNA, graded reports, exams, and gave final grades. 1992- 1995
- Teacher of Science, Russian, Mathematics, and Chemistry for 4th- 8th graders for programs of "Gifted and Talented" in Bowling Green School System, "University Summer Academy", and a Minority Student Advancement Program at BGSU. 1992- 1995
- Teaching Assistant in General Chemistry Laboratories (CHEM 118) in BGSU. Prepared lab and chemicals, assisted students during lab period, graded reports and exams. 1992- 1992
- Teaching Assistant in Organic Chemistry Laboratories (CHEM 332, CHEM 443) in BGSU. Prepared lab and chemicals, directed students during basic organic synthesis and analysis, graded reports and exams. 1991- 1992

## Conferences/ Invited Talks

- “Effects of Lead and Mercury on the Blood Proteome of Children: the focus on Apolipoprotein E” a presentation by K. Bendinskas (accepted and scheduled); 1<sup>st</sup> Biotechnology World Congress, Dubai, United Arab Emirates February 14<sup>th</sup>, 2012
- “Effects of Lead on the Blood Proteome of Children in Oswego, NY: the focus on Apolipoprotein E- Lead Interactions” Tamara Nsouli, Bendinskas poster presented by TN, “Proteomic Study of Human Proteins Binding to Immobilized Metals on IDA Column” Christyne Chmil, Frank Pierce, Fengrong Wang, K. Bendinskas, poster presented by CC, International Sigma Xi Research Conference and Delegate Meeting, Raleigh, NC November 12, 2011
- “Effects of Lead and Mercury on the Blood Proteome of Children: the focus on Apolipoprotein E” a presentation by K. Bendinskas; 2<sup>nd</sup> BIT Annual Congress of Biomarkers, Beijing, China November 9, 2011
- “Studying at SUNY-Oswego as an international student; research in Chemistry and Biochemistry at SUNY-Oswego” invited presentation by K. Bendinskas; Chemistry, Zhejiang Gongshang University, Hangzhou, China October 28, 2011
- Quest, SUNY Oswego, Oswego, NY, sponsored 4 students presenting talks April 13, 2011
- *Organized* the Northeast Sigma Xi Research Symposium at Stony Brook University; “Effects of lead and mercury on the blood proteome of children: Metals and apolipoprotein E”, Frank Pierce, Fengrong Wang, Robert E. Birdsall, James A. MacKenzie, and Kestas Bendinskas, poster presented by Pierce April 9, 2011
- “Lead and Mercury in Children: Involvement of Apolipoprotein E” Bendinskas, K., Pierce, F., Begü GÖNÜL, MacKenzie, J.A. I presented a poster at an International Sigma Xi Research Conference and Delegate Meeting, Raleigh, NC Nov 12, 2010
- “Effects of Lead and Mercury on Proteome of Children” Bendinskas, K., Birdsall, R.E., Kiley, M., MacKenzie, J.A. I presented a poster. “Synthesis and Cross-linking of 3-Thio-4-hydroxyutanoic Acid to Develop anti-GHB ELISA” Wang, F. Bendinskas, K.; Wang presented a poster; the National ACS Meeting, Boston, MA August 23-26, 2010
- *Organized* Summer Scholars program poster conference (38 posters) on the New Science Ground Breaking Day, Oswego, NY, sponsored 6 students presenting posters Sept 17, 2010
- SAS - SUNY Oswego High school project presentations, Oswego, NY, sponsored 3 students presenting posters July, 2010
- Quest, SUNY Oswego, Oswego, NY, sponsored 4 students presenting talks April 21, 2010
- *Organized* the North East Regional Undergraduate and Graduate Student Sigma Xi Poster Conference at Quinnipiac University and the Connecticut Agricultural Experiment Station in New Haven, Connecticut; Roosa, K.A., Birdsall, R.E., J.A. MacKenzie, B.B. Gump, and K. Bendinskas, Proteomic study of lead and mercury exposure in children, poster presented by Roosa; Eric Yeager, Frank Pierce, Bendinskas, K., MacKenzie, J.A. Proteomic study of ribosomal proteins, poster presented by Pierce; Wang, F., Bendinskas, K., MacKenzie, J., and Damkaci F., Synthesis and crosslinking of thio-GHB to BSA, poster presented by Wang April 17, 2010
- Local Sigma Xi Poster Conference at SUNY-Oswego, Oswego, NY; Eric Yeager, Frank Pierce, Bendinskas, K., MacKenzie, J.A. Proteomic study of ribosomal proteins, poster presented by Yeager December 2, 2009
- Bendinskas, K., Birdsall, R.E., Kiley, M., MacKenzie, J., Gump, B., Proteomic study of lead and mercury effects in adolescents, Sigma Xi Annual Delegate Meeting and International Conference, Woodlands, Texas, poster presented by Bendinskas November 13, 2009

- Quest, SUNY Oswego, Oswego, NY, sponsored 4 students presenting talks April 23, 2009
- MacKenzie, J.A., B.B. Gump, K. Roosa, K Bendinskas, A. Dumas, R. Morgan, and P. Parsons, Lead Exposure and Cardiovascular Dysregulation in Children. Experimental Biology 2009, New Orleans, LA., poster presented by J.A.M. April 20, 2009
- *Organized* the North East Regional Undergraduate and Graduate Student Sigma Xi Poster Conference at SUNY-Oswego, Oswego, NY; Banyikwa, A. and Bendinskas, K., Detection of GHB Using Succinic Reductase Coupled with Diaphorase, poster presented by A.B.; Roosa, K.A., J.A. MacKenzie, B.B. Gump, and K. Bendinskas, Connections Between Blood Lipids and the Kallikrein-Kinin System in Children, poster presented by Roosa; Birdsall, R.E., MacKenzie, J., Gump, B., Bendinskas, K., Proteomic study of lead and mercury exposure in children, poster presented by Birdsall; MacMahon, P., MacKenzie, J., Bendinskas, K., Detection of a date rape drug:  $\gamma$ -hydroxybutyric acid, poster presented by MacMahon; Wang, F., Bendinskas, K., and Bruch M., Glycosidation of Ribose and Deoxyribose: Is Stability or Flexibility more important in RNA and DNA?, poster presented by Wang April 18, 2009
- *Organized* Local Sigma Xi Poster Conference at SUNY-Oswego, Oswego, NY; Birdsall, R.E., Bendinskas, K., MacKenzie, J.A., Gump, B. Proteomic study of lead and mercury exposure in children, poster presented by Bendinskas December 2, 2008
- *Organized* 2008 Merck-AAAS Scholars Presentations: Tabitha Maier "Development of Direct ELISA for GHB Detection", Eric Yeager "Cardiovascular Dysfunction: Does Lead Play a Role?", Jenna Burgess "The role of antioxidants in cardiovascular functions exposed to lead" September 19, 2008
- Birdsall, R., Bendinskas, K., and MacKenzie, J.A., Gump, B.B., Proteomic study of lead and mercury exposure in children. 236<sup>th</sup> ACS National Meeting, 2008, Philadelphia, PA, poster presented by Birdsall and Bendinskas August 17, 2008
- Quest, SUNY Oswego, Oswego, NY, sponsored 4 students presenting talks April 23, 2008
- *Organized* the Second North East Regional Undergraduate and Graduate Student Sigma Xi Poster Conference at Cornell University, Ithaca, NY; MacMahon, P, Bendinskas, K., and MacKenzie, J.A. Development of an Enzyme-Linked Immunosorbent Assay for the Detection of  $\gamma$ -hydroxybutyric acid (GHB), poster presented by MacMahon April 19, 2008
- Gump, B.B., Birdsall, R., Bendinskas, K., and MacKenzie, J.A. A negative association between socioeconomic status (SES) and blood cadmium (Cd) in children: Exploring potential risks for future ill health using proteomics. Annual Meeting of the American Psychosomatic Society, 2008, Baltimore, MD, poster presented by Gump March 15, 2008
- Presented a talk "IPCC and global climate change" in the "Focus the Nation" event on SUNY-Oswego campus; participated in the organization of this event January 31, 2008
- *Organized* the local Sigma Xi poster conference at SUNY-Oswego, Crossett, D.J., Bendinskas, K. and MacKenzie, J.A. Single-Step Enzymatic GHB-Detection Assay. Poster presented by Crossett; secondary presentation December 4, 2007
- "The Coalition of Responsible Citizens opposes the TransGas proposal to build Coal Gasification Plant in Scriba. Should you?" Oswego County Environmental management Council and Scriba Planning Board and Scriba Town Board joint meeting; presented a full 45 minute lecture November 19, 2007 and January 23, 2008

- Crossett, D.J., Bendinskas, K. and MacKenzie, J.A. Single-Step Enzymatic GHB-Detection Assay. Presented at the Sigma Xi Annual Meeting and Student Research Conference, Orlando, FL., poster presented by Crossett November 3, 2007
- “Undergraduate Summer Research: Merck-AAAS scholars Reports”, *organized* a session (with James MacKenzie), Oswego, NY, four students presented their oral reports October, 2007
- “Biochemical and Chemical Sugar Detection Methods”, poster with Katie Miloski, “Comparative Analysis of Preparation Techniques for Proteomic Research” poster with Robert Birdsall and James MacKenzie; *Organized* the Second North East Regional Undergraduate and Graduate Student Sigma Xi Poster Conference at Cornell University, Ithaca, NY Saturday, April 21st, 2007
- Quest, SUNY Oswego, Oswego, NY, sponsored 4 students presenting talks April, 2007
- *Organized* the local Sigma Xi poster conference at SUNY-Oswego, “High Performance Liquid Chromatography of Sugars Labeled with Anthranilic Acid”, with Sara Wagoner and Jeff Schneider, a student co-authored and presented a poster November, 2006
- “Purification of Succinic Semialdehyde Reductase”, Sigma Xi national undergraduate student conference and delegate meeting, Detroit, MI, with Patricia Sattelberg, a student co-authored and presented a poster November, 2006
- “Glycosidation of Sugars: The Interface of Biochemistry, Physical, and Analytical Chemistry”, NERM, Binghamton, NY, with Erin Simon, a student co-authored and presented a poster October, 2006
- “Undergraduate Summer Research: Merck-AAAS scholars Reports”, *organized* a session (with James MacKenzie and Diane Chepko-Sade), Oswego, NY, four students presented their oral reports October, 2006
- “Learning by doing: Chemistry-Biology Research as Merck-AAAS Scholar”, with James MacKenzie and Diane Chepko-Sade, Oswego Symposium on Learning and Teaching, SUNY Oswego, Oswego, NY, presented a poster September, 2006
- *Organized* the North East Regional Undergraduate and Graduate Student Sigma Xi Poster Conference at Cornell University, Ithaca, NY Saturday, April 29th, 2006
- Quest, SUNY Oswego, Oswego, NY, sponsored 4 students presenting talks April, 2006
- “Glycosidation of Carbohydrates in the Undergraduate Curriculum”, Sigma Xi national undergraduate student conference and delegate meeting, Seattle, WA, with Katie Cook and Meredith Dumont, students co-authored and presented a poster November, 2005
- “Proteomics in Biochemistry Laboratory”, Oswego Symposium on Learning and Teaching, SUNY Oswego, Oswego, NY, presented a poster September, 2005
- Quest, SUNY Oswego, Oswego, NY, sponsored 4 students presenting talks April, 2005
- “Glycosidation of Carbohydrates in the Undergraduate Curriculum”, 50<sup>th</sup> Undergraduate Research Symposium - Rochester Section of the ACS, with Katie Cook, a student co-authored and presented a talk March, 2005
- “The Use of eInstruction's Personal Response System in Chemistry”, COLT meeting, SUNY-Oswego, presented an invited brief talk March, 2005
- “GHB Detection using Human Brain Succinic Semialdehyde Reductase”, Northeastern Association of Forensic Scientists, Mystic, CT, with D. Gilbert, a student co-authored and presented a talk September 2004
- “The Biochemical Detection of GHB in common drinks and biological fluids”, International GHB and Chemical Drug Conference, Las Vegas, NV, presented a talk September 2004
- “The Biochemical Detection of Date Rape Drug, GHB, in common drinks and biological fluids”, Syracuse Section of ACS, Syracuse University, Syracuse, NY, presented a talk June 2004
- Quest, SUNY Oswego, Oswego, NY, sponsored 3 students presenting talks April 2004
- “Biochemistry in the General Chemistry Laboratory and Potential for Detection of the Date Rape Drug GHB”, Science Today Lecture Series, SUNY Oswego, Oswego, NY, presented a talk September 2003

- “Kinetics of Alcohol Oxidation in Presence of Alcohol Dehydrogenase Followed by Visible Spectroscopy: Biochemistry in the General Chemistry Laboratory”, 36<sup>th</sup> Middle Atlantic Regional ACS Meeting, Princeton University, Princeton, New Jersey; presented a talk June 2003
- Student Research Symposium at Saint Joseph’s University, Sigma Xi, sponsored 3 students presenting posters April 2003
- Undergraduate Research Symposium at Kutztown University, Kutztown, PA, sponsored 4 students presenting a poster April 2002, 2003
- Middle Atlantic Association of Liberal Art College Teachers (MAALACT) in Chemistry at Moravian, PA; participant; created Blackboard “course” for Biochemistry subcommittee October 2001
- Northern Indiana Regional Science and Engineering Fair; *a judge* March 2000
- ND Chemistry and Biochemistry Department undergraduate 248L and 461L student research presentations and poster sessions; *an organizer and a judge.* November 98, 99, 2000 and April 98, 99, 2000, 2001
- JHU Biochemistry Department Seminars: Baltimore; delivered a talk May 1997
- Photochemical Sciences Colloquium: Diversity in Research, Bowling Green; presented a poster October 1995
- Sigma Xi Scientific Society Bowling Green Chapter's Graduate and Undergraduate Student Competition, Bowling Green; presented a poster April 1994
- NATO Advanced School in Photobiology in Medicine, Sardinia, Italy; delivered a talk October 1993
- American Society for Photochemistry and Photobiology Annual Meeting, Chicago, Illinois; presented a poster July 1993
- Sigma Xi Scientific Society Bowling Green Chapter's Graduate and Undergraduate Student Competition, Bowling Green; presented a poster March 1993
- Photochemical Sciences Colloquium: Diversity in Research, Bowling Green; presented a poster September 1992

### **Honors, Responsibilities**

- Member of numerous departmental and campus committees at SUNY-Oswego; spokesperson for the CRC present
- Associate Director and conference coordinator of North East Regional Sigma Xi 2011-present
- Director of the Mass Spectrometry and Proteomics Center, SUNY-Oswego, NY 2008-present
- Primary editor of the Biochemistry section of the *American Journal of Undergraduate Research* 2006-present
- SCAC member, former Chair, Current Chair of the Advisory Committee 2003-present
- Secretary of the Sigma Xi Chapter 2004-2009
- Received a Silver Medal of the ORSP upon achieving \$500,000 in external grants 2008
- Co-director of the Mass Spectrometry and Proteomics Center, SUNY-Oswego, Oswego, NY 2004-2008
- Received a Bronze Medal of the ORSP upon achieving \$250,000 in external grants 2006
- Chair of the Communications Subcommittee for the SPC responsible for running “Science Today” lecture series 2006-2007
- One of 11 members of Lithuanian Community Science Committee of the USA (LB-JAV) 2004- present
- Sierra Club, member 2004- present
- Manchester Who’s Who Among Executives and Professionals Honors Registry 2004/2005
- American Society of Biochemistry and Molecular Biology, member 2002-2008
- Reviewed manuscripts for the *Journal of Chemical Education* 2002- present

- Crowell Allan & Bendinskas, partner 2001- present
- [www.LithuaNet.com](http://www.LithuaNet.com), consultant 2001- present
- Lithuanian Electronic Club LEKAS, founder, moderator; 50 members, 1994-present  
<http://listserv.nd.edu/archives/lekas.htm>
- APSCUF-KU, Representative Council member, Kutztown University 2002-2003
- MAALACT Chemistry, member 2001-2003
- Graduate Studies Committee, Kutztown University 2001- 2003
- Undergraduate Studies Committee, Biochemistry, UND 1998-2001
- American Society of Photochemistry and Photobiology 1992-2001
- Graduate Student Senate, BGSU, Elected Senator of Chemistry Students 1994-1996
- Best Teaching Assistant Award, Bowling Green State University 1995
- Scholarships from Dr. Kazys Martinkus Memorial Fund 1994, 1996
- Scholarships from Lithuanian Foundation 1992-1996
- Graduation with Honors from Mendeleev's University of Chemical Technology 1991
- Lenin's Stipend (the highest possible scholarship of the Soviet Union at that time) 1988-1991
- Publication of an abstract about environmental problems of the Yauza river, a left tributary of the Moscow river, *Journal of Mendeleev Chemical Society* 1990
- Encouraging Awards in the Young Researchers Conferences of Mendeleev University 1987, 1988, 1990
- Golden Medal upon graduation with honors from high school in Klaipeda, Lithuania 1986
- Bronze Medal in The Exhibit of Achievements of National Economy and Education, Moscow, USSR 1986
- The Second, Third, and Second place in Lithuania's National Mathematical Olympics 1983, 1984, 1985