

# *Curriculum Vitae of Mikhail M. Goldin*

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## *EDUCATION*

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- December 2011      **Doctor of Philosophy [Kandidat Nauk], Electrochemistry**  
Mendeleev University of Chemical Technology of Russia,  
Moscow, Russia  
*Dissertation: "Electrochemical Modification of AG-3 Commercial  
Brand of Activated Carbon for Hemosorbent Preparation and  
Development of Methods for Evaluation of Its Effectiveness"*
- May 2007            **Master of Science, Chemistry** (concentration: Inorganic Chemistry)  
Michigan State University, East Lansing, MI  
*Research Project: "Shifts in Electrochemical Potentials of  
Activated Carbon Materials in the Course of Interaction with  
Organic and Inorganic Substances."*
- December 2003     **Bachelor of Science, Chemistry** (Magna Cum Laude)  
Western Michigan University, Kalamazoo, MI
- May 2002            **Associate in Science, Chemistry** (Summa Cum Laude, GPA 4.00)  
Kellogg Community College, Battle Creek, MI
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## *EXPERIENCE*

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### *Academic*

#### **Liberty University**

- 08/11 - Present     Assistant Professor of Chemistry, Biology/Chemistry Department
- Teaching undergraduate chemistry lecture/laboratory courses
  - Teaching Creation Studies courses online
  - Developing course materials for lecture and laboratory
  - Preparing equipment and chemicals for laboratory instruction
  - Using instructional technology and courseware
  - Participating in continuous professional development
  - Participating in service opportunities commensurate with education and experience
- 08/08 – 05/11     Instructor of Chemistry, Biology/Chemistry Department

**Kellogg Community College**, 450 North Avenue, Battle Creek, MI

- 01/04 – 05/08      Adjunct Instructor, Mathematics and Science Department
- Taught remedial, allied health, and general chemistry
  - Developed course materials
  - Prepared equipment and chemicals for laboratory instruction
- 07/06 – 06/08      Paraprofessional, Support Services
- Recruited, supervised, trained, and mentored tutors
  - Developed, coordinated, and evaluated tutoring and support programs
  - Assured compliance with federal and state grant requirements
  - Worked with students with disabilities and coordinated assistive technology/equipment
- 08/04 – 07/06      Mathematics Paraprofessional, The Learning Place
- Taught laboratory portions of developmental math courses
  - Provided tutoring for math, chemistry, and science courses
  - Assisted students with courseware/instructional technology
- 09/01 – 08/02      Peer Tutor
- Provided one-on-one and small-group assistance
  - Introductory, general/inorganic, and organic chemistry
  - All levels of algebra, calculus, and physics

***Courses Taught***Liberty University:

- **CHEM 107 Essentials of General and Organic Chemistry**  
(1-semester General, Organic, and Biological Chemistry for nursing students)
- **CHEM 121/122 General Chemistry I and II**  
(laboratory for two-semester freshman college chemistry sequence)
- **CRST 290 History of Life** (online Creation Studies course)
- **FRSM 101 Freshman Seminar**

Kellogg Community College:

- Fundamental Chemical Concepts (remedial chemistry)
- Fundamentals of Chemistry I (allied-health general chemistry)
- General Chemistry I and II (lecture and laboratory)
- Introductory Algebra
- Pre-algebra (laboratory instruction)
- Mathematics clinic [arithmetic] (individualized laboratory instruction)

***Laboratory/Industrial*****Pfizer Inc.**, 7000 Portage Road, Portage, MI 49002

- 05/03 – 12/03      Intern / Chemical Technician in Gas Chromatography Laboratory
- Collected and interpreted gas chromatography data
  - Assisted with ordering, inventory and safe disposal of chemicals
  - Coordinated completion of short- and long-term projects
  - Completed projects in collaboration with colleagues
  - Prioritized/scheduled analyses in an active, multi-tasked lab

- 09/01 – 12/01      **Kellogg Community College**
- Student Assistant/Laboratory Technician in Photography Laboratory
- Supervised students working in the photography lab
  - Assisted with inventory and ordering of lab chemicals
  - Worked with Material Safety Data Sheets (MSDS)

- 1997-1998      **ECOMED LLC, Moscow, Russia**
- Laboratory Assistant
- Assisted in supervised experiments on adsorption and electrosorption of substances from aqueous solutions
  - Performed colorimetric analysis of aqueous solutions

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***SCHOLARLY ACTIVITIES***

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***Research Interests***

- Electrochemical and adsorption properties of various electrode materials and sorbents with medical and environmental applications
- Effective use of educational technology and novel instructional methodologies in chemistry
- Integration of the Biblical worldview in chemistry education

***Professional Meetings***

1. 89<sup>th</sup> Annual Meeting of the Virginia Academy of Science, Richmond, VA (May 2011)
2. 219<sup>th</sup> Meeting of The Electrochemical Society, Montreal, QC (May 2011)
3. Meeting of the Virginia Blue Ridge Section of the American Chemical Society (May 2009)
4. 212<sup>th</sup> Meeting of The Electrochemical Society, Washington, DC (October 2007)

***Peer-Reviewed Presentations/Abstracts***

1. Mogely Khubutiya, Mark Goldin, Guzel Garayeva, Andrey Stepanov, **Mikhail Goldin**, Alexei Davydov, Lyudmila Reznikova. "Mechanisms of Adsorption of Copper and Silver Ions on Carbon Materials in an Open Circuit." *Meet. Abstr. - Electrochem. Soc.* **2011** 1101 p.2475. (219<sup>th</sup> Meeting)

2. Mark Goldin, Alexander Volkov, Mogely Khubutiya, Vladimir Kolesnikov, Gary Blanchard, Anatoly Evseev, **Mikhail Goldin**, Yury Teselkin, Boris Davydov. "Redox Potential Measurement in Aqueous Solutions and Biological Media." *Meet. Abstr. - Electrochem. Soc.* **2007** 702 p.815. (212<sup>th</sup> Meeting)
3. **Mikhail Goldin**, Gary Blanchard, Alexander Volkov, Mogely Khubutiya, Vladimir Kolesnikov, Anatoly Evseev, Mark Goldin. "Activated Carbon Open Circuit Potential Shifts in Aqueous Solutions." *Meet. Abstr. - Electrochem. Soc.* **2007** 702 p.2. (212<sup>th</sup> Mtg.)
4. Mogely Khubutiya, Vladimir Kolesnikov, **Mikhail Goldin**, Andrey Stepanov, Anatoly Evseev, Yury Goldfarb, Mark Goldin. "Adsorption of Organic Compounds on Hemosorbents Made of Activated Carbons." In *15<sup>th</sup> Conference on Relevant Issues in Extracorporeal Therapy*; Moscow, 2007; p.76 (in Russian).
5. Mark Goldin, Yury Goldfarb, **Mikhail Goldin**. "Mechanism of Shifts of Potentials of Hemosorbents Based on Activated Carbons Caused by Adsorption of Organic Toxicants." In *Transfusion and Detoxification Therapy in Urgent Conditions*; Moscow Hemapheresis Society: Moscow, 2006; p.10 (in Russian).
6. **Mikhail Goldin**, Vladimir Avramenko, Alexander Volkov, Mark Goldin. "The Mechanism of Potential Shifts of Activated Carbon Due to Adsorption of Organic Compounds." *Meet. Abstr. - Electrochem. Soc.* **2006** 502, p.1. (208<sup>th</sup> Meeting)

#### **Peer-Reviewed Publications**

1. Boris Grafov, **Mikhail Goldin**, Guzel Garaeva, Alexei Davydov, Mark Goldin, Vladimir Kolesnikov. "A model study of detoxification processes on ideally polarizable porous carbon materials." *Russ. J. Electrochem.* [submitted 07/2011]
2. **Mikhail Goldin**, Mogely Khubutiya, Boris Grafov, Alexei Davydov, Mark Goldin, Vladimir Kolesnikov. "Mechanism of Copper and tert-Butyl Alcohol Adsorption on Carbon Materials at Various Open-Circuit Potentials." *ECS Trans.*, **2011** 35 (29), p.9.
3. Mogely Khubutiya, Mark Goldin, Yuri Kurilkin, **Mikhail Goldin**, Boris Grafov, Alexei Davydov, Vladimir Kolesnikov. "Assessment of the ratio of adsorption and electrochemical processes during the interaction of activated-carbon hemosorbents with organic toxicants." *Khimicheskaya promyshlennost segodnya [Chemical Industry Today]*, **2011** 7, p. 51 (in Russian)
4. Mogely Khubutiya, Boris Grafov, **Mikhail Goldin**, Alexei Davydov, Vladimir Kolesnikov, Mark Goldin. "Effective numbers of electrons as a criterion of carbon suitability as a hemosorbent." *J. Electrochem. Sci. Eng.*, **2011** 1 (1), p.27.
5. Mogely Khubutiya, Anatoly Evseev, Vladimir Kolesnikov, **Mikhail Goldin**, Alexei Davydov, Alexander Volkov, Andrey Stepanov. "Measurements of Platinum Electrode Potential in Blood and Blood Plasma and Serum." *Russ. J. Electrochem.*, **2010** 46, p.569
6. **Mikhail Goldin**, Vladimir Kolesnikov, Mogely Khubutiya, Alexander Volkov, Gary Blanchard, Anatoly Evseev, Mark Goldin. "Open Circuit Potential Shifts of Activated Carbon in Aqueous Solutions During Chemical and Adsorption Interactions." *J. Appl. Electrochem.*, **2008** 38, p.1369.
7. Mark Goldin, Alexander Volkov, Mogely Khubutiya, Vladimir Kolesnikov, Gary

Blanchard, Anatoly Evseev, **Mikhail Goldin**, Yury Teselkin, Boris Davydov. "Redox Potential Measurement in Aqueous Solutions and Biological Media." *ECS Trans.*, **2008 11** (21), p.39.

8. **Mikhail Goldin**, Gary Blanchard, Alexander Volkov, Mogely Khubutiya, Vladimir Kolesnikov, Anatoly Evseev, Mark Goldin "Activated Carbon Open Circuit Potential Shifts in Aqueous Solutions." *ECS Trans.*, **2008 11** (20), p.19.
9. Mark Goldin, Alexander Volkov, Yury Goldfarb, **Mikhail Goldin**. "Electrochemical Aspects of Hemosorption." *Journal of The Electrochemical Society*, **2006 153** (8), p.J91.

### ***Books***

1. Mikhail Goldin (Ed.). *Experiments for "Essentials of General and Organic Chemistry" Laboratory Manual*, Third Ed. (revised) – *CHEM 107*. Virginia Beach, VA: Academx, 2011. ISBN 978-1-60036-470-9

### ***Professional Development***

- Took the CAFE 600 Online Course Development class (Spring 2009)
- Attended 32 professional development workshops in the CUE/CTE series

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### ***PROFESSIONAL AFFILIATIONS***

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- American Chemical Society and ACS Division of Chemical Education (since March 2008)
- The Electrochemical Society (since May 2007)
- The Virginia Academy of Science (since February 2010)

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### ***GRANTS***

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1. Center for Research and Scholarship Fund of Liberty University – Grant # 021\_030110, \$10,000 (2010-2011)

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### ***SERVICE***

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#### ***Departmental/Institutional Service***

- Oversaw the installation of the new Atomic Absorption Spectrometer (Spring-Fall 2011)
- Served on an interview committee for a Center for Teaching Excellence new faculty position (Summer 2011)
- Chaired the Student Awards Committee in the Biology/Chemistry Department (Fall 2010-Spring 2011)
- Participating in Dr. Godwin's Faculty Forum (Fall 2010)
- Participated in a professional development focus group for the Center for University Excellence (Spring 2009)

- Participated in a communication assessment for Assessment Day (Spring 2009)
- Provided input to the Center for University Excellence Early Career Track meeting (Summer 2009)
- Participated in the First-Year Survivors Panel during New Faculty Orientation (Fall 2009)
- Volunteered in the Commuter Affairs' "Commuter Coffee Kickoff" (Fall 2009, Fall 2010)
- Represented the Biology/Chemistry Department at College for a Weekend Q&A sessions, departmental open house, and Parents' Lunch; during Parents' Weekend; and during Homecoming Weekend (Fall 2008, Spring 2009, Fall 2009, Fall 2010, Spring 2011)
- Presented at the Student Journal Club in the Biology/Chemistry Department (Spring 2010)
- Presented a lecture on electrochemistry to CHEM 495, Advanced Organic Chemistry (Spring 2010)

### ***Professional Service***

- Consulted Terriss Consolidated Industries, Inc. on electrochemistry technology (2010)

### ***Christian/Community Service***

- Leading prayer in TRBC's HomeBuilders ABC Sunday School class (since August 2009)
- Volunteered with Salvation Army's Christmas collection (December 2008)
- Hosted two families of prospective Liberty University students in our home

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### ***AWARDS & HONORS***

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- 2009 LU Biology/Chemistry Department *Mendel Award*
  - Kellogg Community College Outstanding Organic Chemistry Graduate
  - Michigan State University KCC Outstanding Graduate in the Chemical Sciences
  - Published in *Who's Who among Students in American Junior Colleges*
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