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CYNTHIA P. BOLON

Certificate in Effective College Instruction –

THE ASSOCIATION OF COLLEGE AND UNIVERSITY EDUCATORS AND THE AMERICAN COUNCIL
ON EDUCATION (ACUE) –

Effective Date: 5/1/2021 to 5/1/2026

State of Missouri Teacher's Certification –

Previously effective:

Chemistry (grade level 9-12) PC 1 certificate

Effective Date: 12/21/2002 to 12/21/2005

Effective Date: 9/21/2015 to 9/21/2019

Latin (grade level K-12) Temp Auth certificate

Effective Date: 8/11/2003 to 8/11/2005

Renewed – activated pending hire.

PRAXIS – passed the Praxis in Chemistry, Latin, Biology, and Family & Consumer Sciences

Experience Highlights:

Associate Teaching Professor (2015 – present)

Aug. 2006 – present

Lecturer: Chemistry Department (2006 – 2015)

Missouri University of Science & Technology, Rolla, MO 65409

Graduate Teaching Assistant: Chemistry Department

University of Missouri - Rolla, Rolla, MO 65409

Jan. 2006 – May 2006 &
Jan. 2001 – Dec. 2002

Teacher: Math, Algebra, Geometry, Reading, and ACT Prep

Sylvan Learning Center, Rolla, MO 65401

Aug. 2004 – Mar. 2007

Teacher: Latin

Jan. 2003 – May 2005

Student Teacher: Chemistry, Science Applications, Latin

Oct. 2002 – Dec. 2002

Permanent Substitute Teacher: Latin

Rolla High School, Rolla, MO 65401

Aug. 2000 – Dec. 2002

Student Teacher: Chemistry, Physics, Botany, Biology, Biology II

Newburg High School, Newburg, MO 65550

Sep. 2002 – Oct. 2002

Environmental Health Technician: Environmental Health & Safety

July 2000 – Aug. 2002

Authorized Materials Receiver: College of Arts and Sciences

University of Missouri - Rolla, Rolla, MO 65409

May 1998 – July 2000

Assistant Instructor & Craftsman: Crafts, Weaving and Dyeing

Carol Leigh's Hillcreek Fiber Studio, Columbia, Missouri 65203

Nov. 1994 – Sep. 1996

Clothing Construction Teaching Assistant: Work Study

Columbia College, 1001 Rogers, Columbia, MO 65216

Jan. 1994 – May 1996

Education:

Master's Degree Work: Emphasis – Latin

University of Florida, Gainesville, FL 32611-7435

Estimated Date of Graduation: Aug. 2023

Doctorate of Philosophy Nuclear Chemistry

University of Missouri - Rolla, Rolla, MO 65409

July 2006

Post Baccalaureate Work in Chemistry / Secondary Education

University of Missouri - Rolla, Rolla, MO 65409

Aug. 1996 – May 1998

Bachelor of Fine Arts: Fashion Design

Graduated *Cum Laude* (GPA: 3.73) – May 1996

Bachelor of Arts in Individual Studies: Concentration - Chemistry

Minors: English and Psychology

Columbia College, 1001 Rogers, Columbia, MO 65216

Honors, Awards & Organizations:

“We Love Your Class” Award (2008 & 2014)

presented by Missouri University of Science and Technology’s Freshman Engineering Program

National Residence Hall Honorary’s Institution Faculty/Staff Member of the Year Award (2012-2013)

For outstanding efforts in the residence halls of Missouri University of Science & Technology

Thomas Jefferson Hall Association Faculty/Staff of the Year Award (2012-2013)

Tappmeyer Excellence in Undergraduate Teaching Award (2008-2009 & 2017-2018)

presented by Missouri University of Science and Technology Chemistry Department

New Faculty Teaching Scholars, Missouri University of Science and Technology (2007-2008)

Missouri Junior Classical League Outstanding Service Award (2005)

National Honor Society Most Influential Teacher Award (2003 & 2006)

Missouri S&T Graduate Teaching Assistant Workshop Evaluator – Undergraduate evaluator (1992-1993 and 1997-2000); faculty evaluator (2006-2008); and workshop evaluator (2008-2021)

Regional Science Olympiad – Developed materials & supervised two events: Crime Busters & Forensics (2004-present)

Developed materials for various events: Anatomy & Physiology, Can’t Judge A Powder, Chemistry, Lab, Density Lab, Ecology, Food Science, Potions & Poisons, Water Quality Lab

Missouri Region V Director (2017-present) – Coordinated & supervised Regional Tournament.

Missouri State Science Olympiad Judge: Developed materials & supervised Chemistry Lab (2022), Crime Busters (2017-2021), Density Lab (2019), Forensics (2022), Potions & Poisons (2019)

Publications:

C. Bolon, ed. Chemistry 002 Lab Manual: Missouri University of Science and Technology, 4th ed. Cengage Learning: Mason, OH. (2011) [ISBN-13: 978-1-133-44166-3]

C. Bolon, ed. Chemistry 002 Lab Manual: Missouri University of Science and Technology, 3rd ed. Cengage Learning: Mason, OH. (2010)

C. Bolon, ed. Chemistry 002 Lab Manual 2008-2009: Missouri University of Science and Technology, 2nd ed. Cengage Learning: Mason, OH. (2008) [ISBN-13: 978-0-495-76342-0]

C. Bolon, ed. Chemistry Lab Manual: University of Missouri – Rolla. Thompson Brooks/Cole: Mason, OH. (2007) [ISBN-13: 978-0-495-47323-7]

C. Bolon. “Interactions of Nucleons: Their Role in Understanding the Sun’s Origin, Composition, and Source of Energy.” University of Missouri – Rolla. PhD Dissertation. (2006)

O. Manuel, C. Bolon and A Katragada, “Why the Model of a Hydrogen-filled Sun is Obsolete”, Meteoritics and Planet. Sci. **37**, A92 (2002).

O. Manuel, Cynthia Bolon and Max Zhong, “Nuclear Systematics: III. The Source of Solar Luminosity”, J. Radioanal. Nucl. Chem. **252**, 3-7 (2002). Available at: http://www.omatumr.com/abstracts2001/nuc_sym3.pdf

O. Manuel, C. Bolon and Prashanth Jangam, “Nuclear Systematics: II. The Cradle of the Nuclides”, J. Radioanal. Nucl. Chem. **251**, 417-422 (2002). Available at: http://www.omatumr.com/abstracts2001/nuc_sym2.pdf

O. Manuel and C. Bolon, “Nuclear systematics: I. Solar Abundance of the Elements”, J. Radioanal. Nucl. Chem. **251**, 381-385 (2002). Available at: http://www.omatumr.com/abstracts2001/nuc_sym1.pdf

O. Manuel, C. Bolon, A. Katragada and M. Insall, “Attraction and Repulsion of Nucleons: Sources of Stellar Energy”, J. Fusion Energy **19**, 93-98 (2001). Available at: <http://www.omatumr.com/abstracts/jfeinterbetnuc.pdf>

C. Bolon, “Repulsion and Attraction Between Nucleons: Sources of Energy for an Iron-rich Sun and for First Generation Stars”, Bulletin of the American Astronomical Society **33**, number 4, page 1526 (2001).

O. Manuel, C. Bolon, A. Katragada & P. Jangam, "The Sun's Origin, Composition and Source of Energy", in Lunar and Planetary Science XXIX, Abstract 1041, available as 1041-pdf from Lunar and Planetary Institute, Houston, TX (CD-ROM, 2001) Available at: <http://www.omatumr.com/lpsc.prn.pdf>

Presentations:

C. Bolon and O. Manuel. “The Interior of the Sun”, presented at the 33rd Mid-America Astrophysics Conference, Linda Hall Library, Kansas City, MO, April 11-12, 2003.

O. Manuel, C. Bolon and A. Katragada. “The Sun’s Origin and Source of Energy”, presented at the 32nd Mid-America Astrophysics Conference, Linda Hall Library, Kansas City, MO, April 12-13, 2002.

C. Bolon. “Repulsion and Attraction Between Nucleons: Sources of Energy for an Iron-rich Sun and for First Generation Stars”, abstract 146.02D of paper presented at the 199th Meeting of the American Astronomical Society, Washington, DC, January 7-10, 2002.

O. Manuel, C. Bolon, M. Zhong and P. Jangam. “The Sun’s Origin, Composition and Source of Energy”, Abstract 1041 presented at the 32nd Lunar and Planetary Science Conference, Houston, TX, March 12-16, 2001, LPI Contribution 1080, ISSN No. 0161-5297 (2001).

References:

Sylvia Dees [deessk@mst.edu; work phone (573) 341-6713; cell phone (573) 578-8582]

Lance Haynes [lance@mst.edu; work phone (573) 341-4803]

Lauran Mueller [home phone (573) 364-6422]

Lucy Sutcliffe [lucys@mst.edu; cell phone (573) 465-1472]