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## CYNTHIA P. BOLON

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### 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

*Recertification Pending:* 10/7/2024

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

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

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

Latin (grade level K-12) Temp Auth certificate

**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:* Dec. 2025

**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)**

**Regional Science Olympiad – Developed materials & supervised two events: Crime Busters & Forensics (1998-present)**

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

## **Publications:**

- C. Bolon, ed. Chemistry 002 Lab Manual: Missouri University of Science and Technology, 4<sup>th</sup> 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, 3<sup>rd</sup> ed. Cengage Learning: Mason, OH. (2010)
- C. Bolon, ed. Chemistry 002 Lab Manual 2008-2009: Missouri University of Science and Technology, 2<sup>nd</sup> 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](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](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](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 33<sup>rd</sup> 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 32<sup>nd</sup> 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 199<sup>th</sup> 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 32<sup>nd</sup> Lunar and Planetary Science Conference, Houston, TX, March 12-16, 2001, LPI Contribution 1080, ISSN No. 0161-5297 (2001).