

# Dr. Kyle A. Beran

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## Education:

- 1989 – 1994 University of Kansas, Lawrence, KS, Ph.D. (Physical Chemistry)
- 1985 – 1989 Angelo State University, San Angelo, TX, B.S. (Chemistry)

## Professional Employment:

- 2018-present Professor of Chemistry: Chair Dept of Chemistry & Biochemistry, ASU, San Angelo, TX
- 2013-2018 Chair, Department of Physical Sciences, UTPB, Odessa, TX
- 2012-2018 Professor of Chemistry, UTPB, Odessa, TX
- 2009-2013 Associate Dean CAS, UTPB, Odessa, TX
- 2005-2012 Associate Professor, UTPB, Odessa, TX
- 2002-2005 Assistant Professor, The University of Texas of the Permian Basin (UTPB), Odessa, TX
- 2002 Associate Professor, Saint Mary College, Leavenworth, KS
- 1998-2002 Assistant Professor, Saint Mary College, Leavenworth, KS
- 1995-1998 Lecturer, Mesa State College, Grand Junction, CO

## Courses Taught:

- General Chemistry I & II and labs
- Physical Chemistry I & II and labs
- Advanced Inorganic Chemistry and lab

## Selected Publications

- Caleb A. Haynes, Serafin Lopez, and Kyle A. Beran, "Investigation into the molecular structure and energetic stability of endohedral and exohedral metallofullerene derivatives of  $C_{24}$ ", *Int J Quantum Chem.* **2019**; e25992. <https://doi.org/10.1002/qua.25992>.
- Kyle A. Beran, Vidhyullatha Kancharla, Sajid Bashir, Jingbo L. Liu, Oscar M. Ramirez, and Peter J. Derrick, "Parameterizing matrix-assisted laser desorption/ionization (MALDI): Effect of metal surfaces on analyte peak intensities", *J. Undergrad. Chem. Res.* **2017**, 16(4), 115-121.
- Mariela Gonzelez, Samantha Lujan, and Kyle A. Beran, "Investigation into the molecular structure, electronic properties, and energetic stability of endohedral (TM@C<sub>20</sub>) and exohedral (TM-C<sub>20</sub>) metallofullerene derivatives of C<sub>20</sub>: TM = Group 11 and 12 transition metal atoms/ions", *Comput. Theor. Chem.* **2017**, 1119, 32-44.
- Vidhyullatha Kancharla, Sajid Bashir, Jingbo L. Liu, Oscar M. Ramirez, Peter J. Derrick, and Kyle A. Beran, "Effect of metal surfaces on MALDI analyte peak intensities", *Eur. J. Mass Spectr.* **2017**, 23(5), 287-299.
- Mihai Urchianu and Kyle A. Beran, "Identifying the [M+2]<sup>+</sup> peak observed with nitrogen-based MALDI matrices: A theoretical investigation", *J. Undergrad. Chem. Res.*, **2016**, 15(3), 88-94.

## Recent Presentations

- David A. Maldonado, Alec Loya, Milka O. Montes, and Kyle A. Beran, "Validating the presence and exploring the role of a silver hydroxide intermediate in the production of silver nanoparticles", Presented (Abstract #CHED 1114) at the 255<sup>th</sup> National Meeting of the American Chemical Society, New Orleans, LA, March **2018**.

- Nickolas Hernandez and Kyle A. Beran, "Novel characterization of silver nanoparticles utilizing a laser system", Presented (Abstract #CHED 1279) at the 255<sup>th</sup> National Meeting of the American Chemical Society, New Orleans, LA, March **2018**.
- Levi Ramirez and Kyle A. Beran, "Scattered photon intensity as a tool to calibrate the size of Au and TiO<sub>2</sub> nanoparticles", Presented (Abstract #CHED 1280) at the 255<sup>th</sup> National Meeting of the American Chemical Society, New Orleans, LA, March **2018**.
- Russel Maharaj, Anthony X. Martinez, Milka O. Montes, and Kyle A. Beran, "Novel characterization of silver & gold nanoparticles utilizing a laser system", Oral & Poster presentation at the UTPB Undergraduate Research Program (URP), April **2017**.
- Jordan McDonald and Kyle A. Beran, "Energetic and structural analysis of metallo-heterofullerene derivatives of C<sub>20</sub>: C<sub>19</sub>M (M = 3d transition metals)", Oral & Poster presentation at the UTPB Undergraduate Research Program (URP), April **2017**.
- Russel Maharaj, Milka O. Montes, and Kyle A. Beran, "Novel characterization of silver & gold nanoparticles utilizing a laser system", Presented (Abstract #CHED 1261) at the 253<sup>rd</sup> National Meeting of the American Chemical Society, San Francisco, CA, March **2017**.
- Jordan McDonald and Kyle A. Beran, "Energetic and structural analysis of metallo-heterofullerene derivatives of C<sub>20</sub>: C<sub>19</sub>M (M = 3d transition metals)", Presented (Abstract #CHED 875) at the 253<sup>rd</sup> National Meeting of the American Chemical Society, San Francisco, CA, March **2017**.
- Caleb Haynes, Alex Lopez, and Kyle A. Beran, "Energetic stability of endo- and exohedral metallofullerene derivatives of C<sub>24</sub>", Oral & Poster presentation at the UTPB Undergraduate Research Program (URP), April **2016**.
- Caleb Haynes, Alex Lopez, and Kyle A. Beran, "Energetic stability of endo- and exohedral metallofullerene derivatives of C<sub>24</sub>", Presented (Abstract #CHED 1507) at the 251<sup>st</sup> National Meeting of the American Chemical Society, San Diego, CA, March **2016**.
- Mariela Gonzalez and Kyle A. Beran, "Structural and electronic properties of endohedral and exohedral derivatives of C<sub>20</sub> and C<sub>24</sub> fullerenes; TM@C<sub>20</sub>, TM-C<sub>20</sub>, TM@C<sub>24</sub>, TM-C<sub>24</sub>: Density functional theory investigations", Presented (Abstract #CHED 1057) at the 249<sup>th</sup> National Meeting of the American Chemical Society, Denver, CO, March **2015**.