

# KURT WARNCKE

## *Abbreviated CV*

### EDUCATION

1981 A.B. (*cum laude*), Cornell University  
1990 Ph.D., University of Pennsylvania (Supervisor: P. Leslie Dutton)

### ACADEMIC POSITIONS

1981-82 Post-undergraduate research with Professor Richard E. McCarty, Department of Biochemistry, Cornell University  
1990-91 Postdoctoral Fellow with Professor P. Leslie Dutton, Johnson Research Foundation and Department of Biochemistry and Biophysics, University of Pennsylvania  
1991-95 Postdoctoral Fellow with Professors Gerald T. Babcock and John McCracken, Department of Chemistry, Michigan State University  
1995 Assistant Professor, Department of Physics, Emory University  
2001 Associate Professor, Department of Physics, Emory University  
2011 Full Professor, Department of Physics, Emory University

### ACADEMIC EXPERIENCE

2002-08 Director of Graduate Studies, Department of Physics, Emory University  
2008-12 Chair, Department of Physics, Emory University

### EXTERNAL RESEARCH FUNDING

#### Active

R01 GM142113 (PI: Warncke, K.) 09/15/2020-09/14/2024  
NIH/NIGMS  
Cobalt(II)-Radical Pair Dynamics in B12 Enzyme Catalysis

### PROFESSIONAL ACTIVITIES

#### *Grant and Program Review, National Institutes of Health (NIH)*

1998-2020 *Panel Member, NIH Study Sections: Shared Instrumentation Grant (1998), Biophysical Chemistry (BBCB) (1999), Metallobiochemistry (BMT) (2001), Special Study Section B (SSSB) (2002), Biophysical Chemistry (BP) (2002), Metallobiochemistry (BMT) (2003, 2004), Molecular Structure & Function A (MSFA) (2006, 2014), ARRA Challenge Grants (2009), Countermeasures Against Chemical Threats (CounterACT) (2016), Enabling Bioanalytic and Imaging Technologies (EBIT) (2017), NIH Director's Early Independence Award (DP5) (2017, 2018), NIH Special Emphasis Panel (2020)*  
2009-13 Permanent Member, NIH Study Section: Molecular Structure Function A (MSFA)

#### *Grant and Program Review, National Science Foundation (NSF)*

2000 External Program Reviewer, Chemical Sciences Division, U. S. Dept. of Energy  
2013 Member, EMR Subgroup, User Committee, National High Magnetic Field Laboratory  
2014-16 Chair, EMR Subgroup, User Committee, National High Magnetic Field Laboratory  
2020 NSF Grant Review Panel: Chemistry of Life Processes, Metalloproteins

### Meeting and Program Organization

2005	Chair, 34 <sup>th</sup> Southeastern Magnetic Resonance Conference (SEMRC)
2009	Member, Organizing Committee, 76 <sup>th</sup> Meeting of the Southeast Section of the American Physical Society
2011-13	Member, Organizing Committee, 53 <sup>rd</sup> –55 <sup>th</sup> Rocky Mountain Conference on Magnetic Resonance: EPR
2014	Co-Chair, 56 <sup>th</sup> Rocky Mountain Conference on Magnetic Resonance: EPR
2015	Chair, 57 <sup>th</sup> Rocky Mountain Conference on Magnetic Resonance: EPR
2016	Chair, 45 <sup>th</sup> Southeastern Magnetic Resonance Conference (SEMRC)
2017	Participant (invited), EPR Present and Future, Conference/Workshop (NSF, DFG)
2019	Lecturer (invited), International EPR Society and SharedEPR Network: Summer School on EPR Spectroscopy

### REVIEW, Journals

*ACS Catalysis, Biochemistry, Biochimica et Biophysica Acta, Biophysical Chemistry, Biophysical Journal, Chemical Physics Letters, Chemical Reviews, Chemistry—A European Journal, Inorganic Chemistry, Journal of the American Chemical Society, Journal of Bioinorganic Chemistry, Journal of Inorganic Biochemistry, Journal of Physical Chemistry, Nature Structural Biology, Photochemical and Photobiological Sciences (RSC), Proceedings of the National Academy of Sciences (USA).*

### PROFESSIONAL SOCIETY MEMBERSHIPS

American Association for the Advancement of Science, American Chemical Society, American Physical Society, Biophysical Society, International EPR Society, Royal Astronomical Society of Canada

### PUBLICATIONS

See list under **Publications**, this site.

url: <http://www.physics.emory.edu/faculty/warncke/publications.html>

### BOOKS, EDITED

Qin, P. Z, and Warncke, K., Editors. (2015) Electron paramagnetic resonance investigations of biological systems by using spin labels, spin probes, and intrinsic metal ions. *Methods in Enzymology*, 563 (Part A) and 564 (Part B) [two volumes]. Academic Press, New York.

### SOFTWARE

See under **Software**, this site.

url: <http://www.physics.emory.edu/faculty/warncke/software.html>

### STUDENT SOCIETIES & CLUBS (Advisor)

1997-2004	Society of Physics Students (Undergraduate student society)
1997-	Sigma Pi Sigma (Physics National Honor Society)
2005-	Young Emory Physicists (Graduate Student Physics Club at Emory)

### OUTREACH

2016	Research and laboratory tour, Therrel High School (Atlanta) seniors
2018, 2019	STEM Outreach; Evansdale Elementary School, Atlanta