

## EATON E. LATTMAN

### a. Professional Preparation

Harvard College, Cambridge, MA	Chemistry and Physics	BA (cum laude)/1962
Johns Hopkins University, Baltimore, MD	Biophysics	PhD/1969
Johns Hopkins University, Baltimore, MD	Biophysics	Post-doctoral/1970-1974
Max Planck Institute for Biochemistry, Germany	Crystallography	Post-doctoral/1974-1974
Brandeis University, Waltham, MA	Crystallography	Post-doctoral/1974-1976

### b. Appointments

- 2019-Present **Faculty Affiliate**, Physics, ASU
- 2018-Present **Faculty Affiliate** Biochemistry, University of Maryland-Baltimore
- 2016-Present **Professor** of Materials Design and Innovation, University at Buffalo, Buffalo, NY
- 2013-2017 **Director** BioXFEL Project, University at Buffalo, Buffalo, NY
- 2009-Present **Professor** of Structural Biology, University at Buffalo, Buffalo, NY
- 2008-2014 **CEO and Executive Director**, Hauptman-Woodward Institute, Buffalo, NY
- 2004-2008 **Dean**, Research & Graduate Education, Johns Hopkins University School of Arts & Sciences, Baltimore, MD
- 1996-2008 **Professor** of Biophysics, Johns Hopkins University Krieger School of Arts & Sciences (Chair 1996-2003), Baltimore, MD
- 1977-1996 **Assistant, Associate, Full Professor** of Biophysics, Johns Hopkins Medical School, Baltimore, MD
- 1977-1977 **Adjunct Assistant Professor** of Biology, Brandeis University, Waltham, MA

### c. Products

#### PRODUCTS MOST CLOSELY RELATED

1. **Eaton E. Lattman**. Molecular structures from femtosecond x-ray pulses. *Proc. Natl. Acad. Sci.*, 98(12), 6535-6, (2001).
2. Jan Hoh, William Heinz, Jeffrey Werbin, **Eaton Lattman**. Computing spatial information from Fourier coefficient distributions. *J. Memb. Biol.*, 241(2), 59-68, (2011).
3. Sol Gruner and **Eaton Lattman**. Biostructural Science Inspired by Next-generation X-ray Sources. *Ann. Rev. Bioph.*, 44, 33-51, (2015).
4. **Eaton Lattman**. XFELs in the Study of Biological Structure. *Cern Courier*, March, 2015.
5. Aquila, A. Barty, C. Bostedt, S. Boutet, G. Carini, D. dePonte, P. Drell, S. Doniach, K. H. Downing, T. Earnest, H. Elmlund, V. Elser, M. Gühr, J. Hajdu, J. Hastings, S. P. Hau-Riege, Z. Huang, **E. E. Lattman**, F. R. N. C. Maia, S. Marchesini, A. Ourmazd, C. Pellegrini, R. Santra, I. Schlichting, C. Schroer, J. C. H. Spence, I. A. Vartanyants, S. Wakatsuki, W. I. Weis and G. J. Williams. The Linac Coherent Light Source Single Particle Road Map. *Structural Dynamics*, 2(4), 041701, (2015), doi: 10.1063/1.4918726.

## OTHER SIGNIFICANT PRODUCTS

1. Lisa J. Keefe, John Sodek, David Shortle, and **Eaton Lattman**. The Alpha Aneurism: A Structural Motif Revealed in an Insertion Mutant of Staphylococcal Nuclease. *Proc. Natl. Acad. Sci.*, 90(8), 3275-3279, (1993).
2. **Eaton E. Lattman** and George D. Rose. Protein Folding - What's the Question? *Proc. Natl. Acad. Sci.*, 90(20), 439-441, (1993).
3. Susan M. Green, Apostolos G. Gittis, Alan K. Meeker, and **Eaton E. Lattman**. One-step Evolution of a Dimer from a Monomeric Protein. *Nat. Struct. Biol.*, 2(9), 746-751, (1995).
4. Bertrand García-Moreno E., John J. Dwyer, Apostolos G. Gittis, **Eaton E. Lattman**, Daniel S. Spenser, Wesley. E. Stites. Experimental Measurement of the Effective Dielectric in the Hydrophobic Core of a Proteins. *Biophys. Chem.*, 64(1-3), 211-224, (1997).
5. Graeme L. Conn, David E. Draper, **Eaton E. Lattman**, and Apostolos G. Gittis. Crystal Structure of a Conserved Ribosomal Protein-RNA Complex. *Science*, 284(5417), 1171-74, (1999).

### d. Synergistic Activities

- Leader in developing two new inter-school PhD programs within Johns Hopkins University: Program in Molecular Biophysics and Program in Chemical Biology. These are both supported by NIH training grants
- Developer of so-called Lattman Angles that are widely used in crystallography software packages to carry out rotational searches
- Editor-in-chief *Proteins: Structure, Function, and Genetics*: 1993 – 2005
- Member Board of Trustees, Charter School for Applied Technologies, Buffalo, NY. CSAT serves a deprived inner city population and achieves a nearly 100% high school graduation rate where public schools hover around 50%.
- Co-author with Patrick Loll of *Protein Crystallography: A Concise Guide*. This accessible book, less than 120 pages long, forms the basis for many short courses or course units in protein crystallography.