

## **Klaus Schulten**

Swanlund Professor of Physics  
University of Illinois at Urbana-Champaign  
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### ***EDUCATION:***

University of Münster, Diplom in Physics, 1969  
Harvard University, MS in Chemistry, 1970  
Harvard University, Ph.D. in Chemical Physics, 1974  
University of Göttingen, Habilitation, 1980

### ***HONORS & AWARDS:***

Nernst Prize of the Physical Chemistry Society of Germany, 1981  
Schaefer Visiting Professor, Columbia U., 1985-86  
Fellow of the Institute of Theoretical Physics, Santa Barbara, 1986  
Fellow of the American Physical Society, 1993  
Selected University of Illinois Scholar, 1996  
Swanlund Endowed Chair, University of Illinois, 1997  
Fellow, Inst. of Adv. Studies, Hebrew U., 1994 and 1998-1999  
Humbolt Award, German Humbolt Foundation, 2004  
Biophysical Society Fellow 2012  
2012 IEEE Computer Society Sidney Fernbach Award  
2012 EMMY Awards – Information/Instructional --“Sculpting Proteins”  
Biophysical Society 2013 Distinguished Service Award

### ***PROFESSIONAL EXPERIENCE:***

Research Assistant, Max-Planck-Institute for Biophysical Chemistry, 1974-1980  
Professor of Physics, Technical University of Munich, 1980-1989  
Professor of Physics, University of Illinois 1988-present  
Affiliate Professor of Chemistry and Biophysics, UIUC, 1988-present  
Director, NIH Center for Macromolecular Modeling & Bioinformatics, UIUC, 1990-present

### ***RESEARCH INTEREST***

Utilizing physical theory and computing to model organisms across many levels of organization, from molecules to cells to networks. The research is driven by problems in molecular biophysics, such as solving the mechanisms of bioenergetic proteins, the recognition and regulation of DNA by proteins, and unraveling the molecular basis of the mechanical properties of cells.

### ***SYNERGISTIC ACTIVITIES:***

- Develops and distributes innovative software tools that are used by over 220,000 registered users worldwide to explore biomolecular systems—VMD, a molecular graphics program; NAMD, a scalable molecular dynamics for laptops, clusters, and supercomputers; BioCoRE, a web-based collaborative research environment.
- Maintains a popular web site with information and services for computational biology; in October 2012 the site had 95,047 unique visitors who downloaded 480.02,GB of data.
- Combines in his research group students of physics, chemistry, biology, and computer science, theoretical physics, theoretical chemistry, mathematics, and software engineering; the group engages in many computational-experimental collaborations.
- Organizes and teaches a series of hands-on-workshops in computational biophysics.

### ***PUBLICATIONS***

**599** peer-reviewed publications

### ***TEACHING ACTIVITIES:***

Professor Schulten has been teaching full time since 1980.  
(<http://www.ks.uiuc.edu/Services/Class>)