# **Distinguished Lecture Series**



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| Dr. Schutt received his undergraduate degree from the University of Michigan, where he majored in Physics, and his Ph.D. in Applied Mathematics from Harvard University, where he developed methods used to determine the first high resolution structures of icosahedrral viruses. Funded by a Helen Hay Whitney Fellowship, a Muscular Dystrophy Postdoctoral Fellowship, and an Established Investigatorship of the American Heart Association, Schutt pursued structural studies under Sir Aaron Klug and Hugh Huxley at the Medical Research Council Laboratory of Molecular Biology in Cambridge, England. In 1985 he joined the faculty of Princeton University as an Associate Professor in the Chemistry Department, with an affiliated appointment in the Department of Molecular Biology. Schutt has taught courses on Pharmaceutical Policy in the Woodrow Wilson School, as well as Honors Freshman Chemistry, Advanced Structural Biology, and Freshmen Seminars in 'Process and 'Architectonics'. His research is focused on determining biological structures of cellular machines involved in movement and force production. Schutt has honorary degrees from Stockholm University and the University of San Marcos (Lima, Peru). Schutt is a Founding Trustee and served as Chairman of the Board of the National Alliance for Autism Research, NAAR (Princeton, NJ), which has now merged with Autism Speaks, the largest publicly funded organization dedicated to funding research and advocacy for autism. Presently, he serves as Director and Chief Scientific Officer of the Nancy Lurie Marks Family Foundation, one of the largest private funders of autism research and treatment.The scientific basis for understanding autism has expanded enormously in the past twenty years. Autism has entered the mainstream of neuroscience. Schutt will highlight some of the milestones in this process and elucidate the key role played by parents and family members. He will use the concept of 'Architectonics' -- the theory of theories -- to describe the new logic of discovery in neuroscience. These discoveries have transformed how we think about the relation of brain to body, and opened up important ways of thinking about how the brain learns language and creates speech. These ideas are important for thinking about autism, what might cause it, and where treatments might come from. This structural perspective might tell us how we can interpret the genes implicated in autism in terms of cellular and global systems of nervous activity. Finally, how does what have we learned increase our hopes for a better future for our children and relatives?   |
| This lecture is intended for families of individuals with an autism spectrum disorder and for professionals supporting individuals on the autism spectrum. We also invite anyone who is interested in learning more about ASD. Upon completion of this lecture, participants will be able to:1. Discuss how family members have helped autism enter the mainstream of neuroscience.
2. Explain how scientists may better understand and treat autism through using the lens of neuroscience.
3. Discuss how this knowledge may lead to improved outcomes for individuals with autism spectrum disorder (ASD).
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Clarence E. Schutt, PhD

Professor of Chemistry, Princeton University;

Director, Nancy Lurie Marks Family Foundation

**"A 20 year Perspective on Trying to Understand Autism"**

**Please allow yourself 10-15 minutes to park and walk to the building.**

**Accreditation Statement**

The Children's Hospital of Philadelphia is accredited by The Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

**AMA Credit Designation Statement**

The Children's Hospital of Philadelphia designates this educational activity for a maximum of 1.0 AMA PRA Category 1 Credit(s) TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**APA Accreditation Statement**

The Children's Hospital of Philadelphia is approved by the American Psychological Association to sponsor continuing education for psychologists. The Children's Hospital of Philadelphia maintains responsibility for this program and its content.

**Act 48 Credits will also be available**

Event Contact

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### Thursday, December 13th, 2012 7 P.M. – 9 P.M.

**Colket Translational Research Building
Room 1200AB Philadelphia, PA**

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