



## JUDITH G. SHELLING • DIRECTOR

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Judith is a highly talented and accomplished intellectual property attorney with dual backgrounds in science and law. She has significant experience integrating legal issues into product development and commercialization including the identification, processing and management of intellectual property in deadline driven environments. Her scientific expertise spans a wide range of fields and her research has been published in peer reviewed journals.

Judith's principal legal work focuses on patent prosecution relating to chemical and biochemical products including chemical and therapeutic formulations as well as electronic and medical devices.

Before practicing law, Judith researched the synthesis, structure and function of a wide range of large and small biomolecules such as peptides, proteins, carbohydrates and lipids. She also worked in a commercial laboratory specializing in agricultural testing and products, designed and managed the construction of two analytical facilities for determining the structures of chemical and biological molecules, and secured funding from the National Institute of Health, the National Science Foundation and IBM to perform structure-function research on proteins and peptides.

### EDUCATION

- Univ. of British Columbia, *B.Sc.*, Chemistry & Biology, *Honors*;
- Univ. of British Columbia, *M.Sc.*, Chemistry;
- Univ. of Alberta, *Ph.D.*, Biochemistry;
- Arizona State Univ., *J.D.*;
- *Postdoctoral Fellow*, Dept. of Medical Genetics, Univ. of Toronto

### ADMITTED TO PRACTICE

- Arizona, 2004
- U.S. Patent and Trademark Office

### CONTACT

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Main: 314.862.7878  
Cell: 805.252.4964  
Facsimile: 314.862.7882  
Email:  
[judith.shelling@averture.net](mailto:judith.shelling@averture.net)

### LEGAL EXPERIENCE

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#### RELEVANT REPRESENTATION

- Managed on-site intellectual property issues for subsidiary start-up business that grew 500% in first year.
- Created management procedures for IP license agreements to successfully prevent lawsuits.
- In-House IP counsel liaison for lead manufacturer in development and production of semiconducting organic light diode (OLED) displays.
- Acted as sole on-site IP liaison between West Coast subsidiary and East Coast corporate in-house legal counsel.
- Frequent work in Freedom To Operate (FTO) and competitive IP analyses for OLED technology.
- Integrated legal issues into product development using Product and Cycle-time Excellent (PACE) approach.
- In-House coordination of IP issues relating to product development and marketing, including jointly developed technology, business and technology agreements, and non-disclosure issues.
- In-House patent prosecution (chemistry, materials, electronic device manufacturing and architecture) for strategic business unit, including inventor interviews, invention disclosures, drafting applications, and preparing office action responses and amendments.
- Prepared chemistry and pharmaceutical patent applications, patentability opinions, and infringement opinions.

### OF NOTE

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Judith has remarkable research experience in chemistry and biology. While serving as a Faculty Member at the University of Kentucky—in both the Department of Biochemistry and the Department of Medicinal Chemistry and Pharmaceuticals, she consulted on structural biology and rational drug design projects and secured funding for structural biology research projects in NMR and molecular modeling. Judith was also Director of the UK Biological NMR Facility and taught graduate and undergraduate courses in biochemistry and chemistry while at the university. Currently, Judith is a Research Fellow at Arizona State University Center for the Study of Law, Science, and Technology.





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### PROFESSIONAL EXPERIENCE – SCIENTIFIC

*PHARMACOLOGY TOXICOLOGY RESEARCH LABORATORY (PTRL) EAST, INC.*

Contract research laboratory specializing in agricultural testing and products.

- Senior Scientist and Director, Structural Chemistry-Biology Facility.
- Designed and managed structural analysis facilities in chemistry and biology.
- Directed extramural research program funded by the NIH.

*UNIVERSITY OF KENTUCKY, Lexington, Kentucky*

Adjunct Associate Professor of Medicinal Chemistry and Pharmaceutics

Director, UK Biological NMR Facility

Assistant Professor, Department of Biochemistry

- Directed and funded extramural research programs as a PI for over 10 years (research funded by the NIH, NSF, and IBM).
- Consultant on structural biology and rational drug design projects.
- Developed and funded structural biology research projects (NMR, molecular modeling).
- Designed and managed UK Biological NMR Facility.
- Designed and implemented university-wide policy decisions relating to allocation, purchase, and use of structural analysis technology, including NMR, molecular modeling, and supercomputer equipment.
- Published numerous scientific articles and presented research at many domestic and foreign conferences.
- Taught graduate and undergraduate courses in biochemistry and chemistry.

### EXTERNSHIPS

- United States District Court for the District of Arizona, Senior Judge Robert C. Broomfield (2001).
- Office of Technology Collaborations and Licensing, Arizona State University (1999-2000).
- Center for the Study of Law, Science, and Technology, Research Assistant, Legal Acquisition and Treatment of DNA Evidence (1999-2000).

### PROFESSIONAL ASSOCIATIONS

- American Intellectual Property Law Association (AIPLA)
- American Bar Association (ABA)
- American Chemical Society (ACS)

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#### PRODUCT EXPERIENCE

*Chemical  
Compounds*

*Electronic  
Technology*

*Pharmaceuticals*

*Medical Devices*

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