

**ASSOCIATE**

Portland Office  
503.473.0801  
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**EDUCATION**

J.D., University of Iowa College of Law, 2018

Ph.D., Chemical Engineering and Nanotechnology, University of Washington, 2012

M.S., Chemical Engineering, University of Washington, 2008

B.S., *magna cum laude* in Chemistry, Eastern Oregon University, 2003

**ADMISSIONS**

Oregon, (Pending)

**PRACTICE AREAS**

Patents

Litigation

Post-Grant USPTO Proceedings

**TECHNOLOGIES**

Agriculture & Food Science

Chemical

Electrical & Semiconductors

Life Sciences & Biotechnology

Mechanical

Medical Devices & Diagnostics

Nanotechnology

## Richard D. Champion, Ph.D.

Richard's practice includes all areas of intellectual property law, with a focus on the preparation and prosecution of patent applications.

Richard's focus is in chemistry, biochemistry, nanotechnology, and life science-related technologies. Richard previously worked as a scientist and engineer in academic, industry, and national laboratory settings. His extensive research experience is in areas including organic and polymeric electronics, electrochemistry, battery material development, cleanroom device fabrication, organic and bioorganic chemistry, sensor material fabrication, wood and paper products, and nanotechnology.

Richard joined Klarquist as an associate in 2018.

**Professional Experience**

- University of Iowa College of Law  
Iowa City, Iowa  
Research Assistant, 2016 – 2018
- Shumaker & Sieffert  
Saint Paul, Minnesota  
Summer Associate, 2017
- Kinney & Lange  
Minneapolis, Minnesota  
Summer Law Clerk, 2016
- Weyerhaeuser  
Federal Way, Washington  
Contract Scientist, 2009 – 2012
- University of Washington  
Seattle, Washington  
Research/Teaching Assistant, 2004 – 2008
- Pacific Northwest National Laboratories  
Richland, Washington  
Chemical Research Fellow, 2002, 2003 – 2004
- Eastern Oregon University  
La Grande, Oregon  
Teaching Assistant, 2001 – 2003

**Presentations & Publications**

- Champion, Richard D.; Wiley, James H. "Reduction of the Adsorption of Quaternary Ammonium Salts onto Cellulosic Fibers" US Patent No. 8,328,988. filed March 15, 2010, issued December 11, 2012.

- Champion, Richard D.; Cheng, Kai-Fang; Pai, Chia-Ling; Chen, Wen-Chang; Jenekhe, Samson A. "Electronic properties and field-effect transistors of thiophene-based donor-acceptor conjugated copolymers." *Macromolecular Rapid Communications* (2005), 26(23), 1835-1840.
- Zhu, Yan; Champion, Richard D.; Jenekhe, Samson A. "Conjugated Donor-Acceptor Copolymer Semiconductors with Large Intramolecular Charge Transfer: Synthesis, Optical Properties, Electrochemistry, and Field Effect Carrier Mobility of Thienopyrazine-Based Copolymers." *Macromolecules* (2006), 39(25), 8712-8719.
- Wu, Pei-Tzu; Kim, Felix S.; Champion, Richard D.; Jenekhe, Samson A. "Conjugated Donor-Acceptor Copolymer Semiconductors. Synthesis, Optical Properties, Electrochemistry, and Field-Effect Carrier Mobility of Pyridopyrazine-Based Copolymers." *Macromolecules* (2008), 41(19), 7021-7028.
- Garcia, Betzaida Batalla; Feaver, Aaron M.; Zhang, Qifeng; Champion, Richard D.; Cao, Guozhong; Fister, Tim T.; Nagle, Ken P.; Seidler, Gerald T. "Effect of pore morphology on the electrochemical properties of electric double layer carbon cryogel supercapacitors." *Journal of Applied Physics* (2008), 104(1), 014305/1-014305/9.
- Liu, Dawei; Xiao, Peng; Zhang, Yunhuai; Garcia, Betzaida B.; Zhang, Qifeng; Guo, Qing; Champion, Richard; Cao, Guozhong. "TiO<sub>2</sub> Nanotube Arrays Annealed in N<sub>2</sub> for Efficient Lithium-Ion Intercalation." *Journal of Physical Chemistry C* (2008), 112(30), 11175-11180.
- Liu, Dawei; Zhang, Qifeng; Xiao, Peng; Garcia, Betzaida B.; Guo, Qing; Champion, Richard; Cao, Guozhong. "Hydrous Manganese Dioxide Nanowall Arrays Growth and Their Li<sup>+</sup> Ions Intercalation Electrochemical Properties." *Chemistry of Materials* (2008), 20(4), 1376-1380.
- Hancock, Jessica M.; Gifford, Angela P.; Champion, Richard D.; Jenekhe, Samson A. "Block Co-oligomers for Organic Electronics and Optoelectronics: Synthesis, Photophysics, Electroluminescence, and Field-Effect Charge Transport of Oligothiophene-b-oligoquinoline-b-oligothiophene Triblock Co-oligomers." *Macromolecules* (2008) 41(10), 3588–359.