

EDUCATION

Ph.D. in Mechanical Engineering, The Georgia Institute of Technology	2013
MS in Mechanical Engineering, The Georgia Institute of Technology	2010
BS in Mechanical Engineering, Purdue University	2007

PROFESSIONAL EXPERIENCE

**Team Lead for Large Scale Polymer and Infrastructure Scale Additive Manufacturing,
Oak Ridge National Laboratory 2010–Present**

Leads the development of large-scale additive manufacturing systems capable of producing large parts (8' x 20' x 6', 1000+lb) at rates 1000x faster than current commercially available systems. Personal research areas of interest include additive manufacturing, control theory, industrial robotics, and machine dynamics.

SELECTED PATENTS AND INVENTIONS

- **Patent US9821502B2** *Multi-orifice deposition nozzle for additive manufacturing*, Randall F. Lind, Brian K. Post, Colin L. Cini
- **Patent US10105876B2** *Apparatus for generating and dispensing a powdered release agent*, Randall F. Lind, Brian K. Post, Phillip C. Chesser, Andrew P. Reis, Alex C. Roschli
- **Patent Pending US20170151728A1** *Machine and a method for additive manufacturing with continuous fiber reinforcements*, Vlastimil Kunc, Craig A. Blue, Chad E. Duty, Randall F. Lind, John M. Lindahl, Peter D. Lloyd, Lonnie J. Love, Matthew R. Love, Brian K. Post, Orlando Rios
- **Patent Pending US20180229442A1** *Bonded permanent magnets produced by additive manufacturing*, Huseyin Ucar, Mariappan Parans Paranthaman, Orlando Rios, Belther Mojoko Monono, Brian K. Post, Vlastimil Kunc, Cajetan I. Nlebedim. William McCallum, Scott K. McCall
- **Patent Pending US20180117818A1** *Magnetic feed material and its use in producing bonded permanent magnets by additive manufacturing*, Mariappan Parans Paranthaman, Ling Li, Vlastimil Kunc, Brian K. Post, Orlando Rios, Robert H. Fredette, John Ormerod
- **Patent Pending US20180311891A1** *Z-axis improvement in additive manufacturing*, Chad E. Duty, Seokpum Kim, Vlastimil Kunc, Lonnie J. Love, Brian K. Post, Jordan A. Failla, John M. Lindahl
- **Patent Pending US20190047219A1** *Polymer exhaust for eliminating extruder transients*, Phillip C. Chesser, Brian K. Post, Matthew R. Sallas, Alex C. Roschli, Randall F. Lind, Lonnie J. Love

SELECTED AWARDS

- **R&D 100** Award 2018 - Ambient Reactive Extrusion Additive Manufacturing
- **R&D 100** Award 2017 - Additively Manufactured Magnets
- **R&D 100** Award 2017 - Large Format Additive Manufacturing Coating Solutions
- **R&D 100** Award 2017 - High Temperature Autoclavable Materials for AM
- **R&D 100** Award 2015 - Editor's Choice Award Winner: Process/Prototyping
- **R&D 100** Award 2015 - GENOA Software
- **Federal Laboratory Consortium** Technology Focus Award 2018 - Successful Collaboration Accelerates Testing of New Blade Designs
- **Federal Laboratory Consortium** Excellence in Technology Transfer 2018 - ORNLs Co-Development and Licensing of Large Additive Area Manufacturing Technologies
- **Federal Laboratory Consortium** Partnership Award 2017 - National Rotor Testbed: Using Large Scale 3D Printing to Test New Wind Blade Designs