



Andrey A. Voevodin

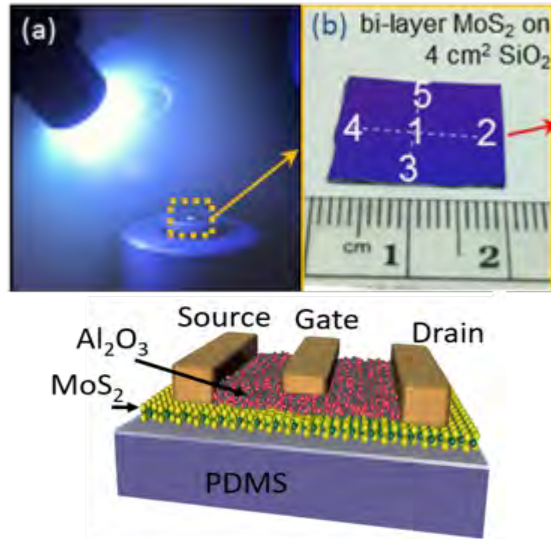
Professor of Materials Science and Engineering Department
Associate Dean of Research, College of Engineering

Research: Plasma assisted growth of thin films, low temperature synthesis of electronic materials, tribology in extreme environments, additive manufacturing diagnostics, in-situ spectroscopy methods



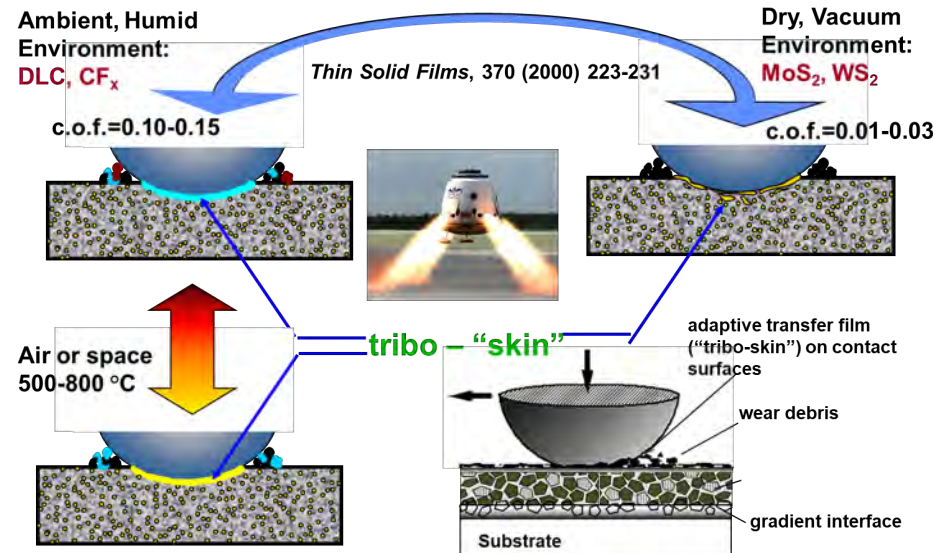
Thin Films & Electronics

- Sputtering and PLD processing
- Laser writing/annealing
- Semiconductors: MoS₂, WS₂
- Dielectrics – BN, BON, Al₂O₃



Coatings & Tribology

- Environment adaptive - ambient and space
- High temperature sliding contacts
- Wear protective and friction reducing coatings
- In-situ Raman spectroscopy of tribology contacts



In-situ Spectroscopy & AM

- Additive manufacturing monitoring
- Laser induced break down spectroscopy
- In-situ composition analysis
- Gradient and complex composition alloys

