

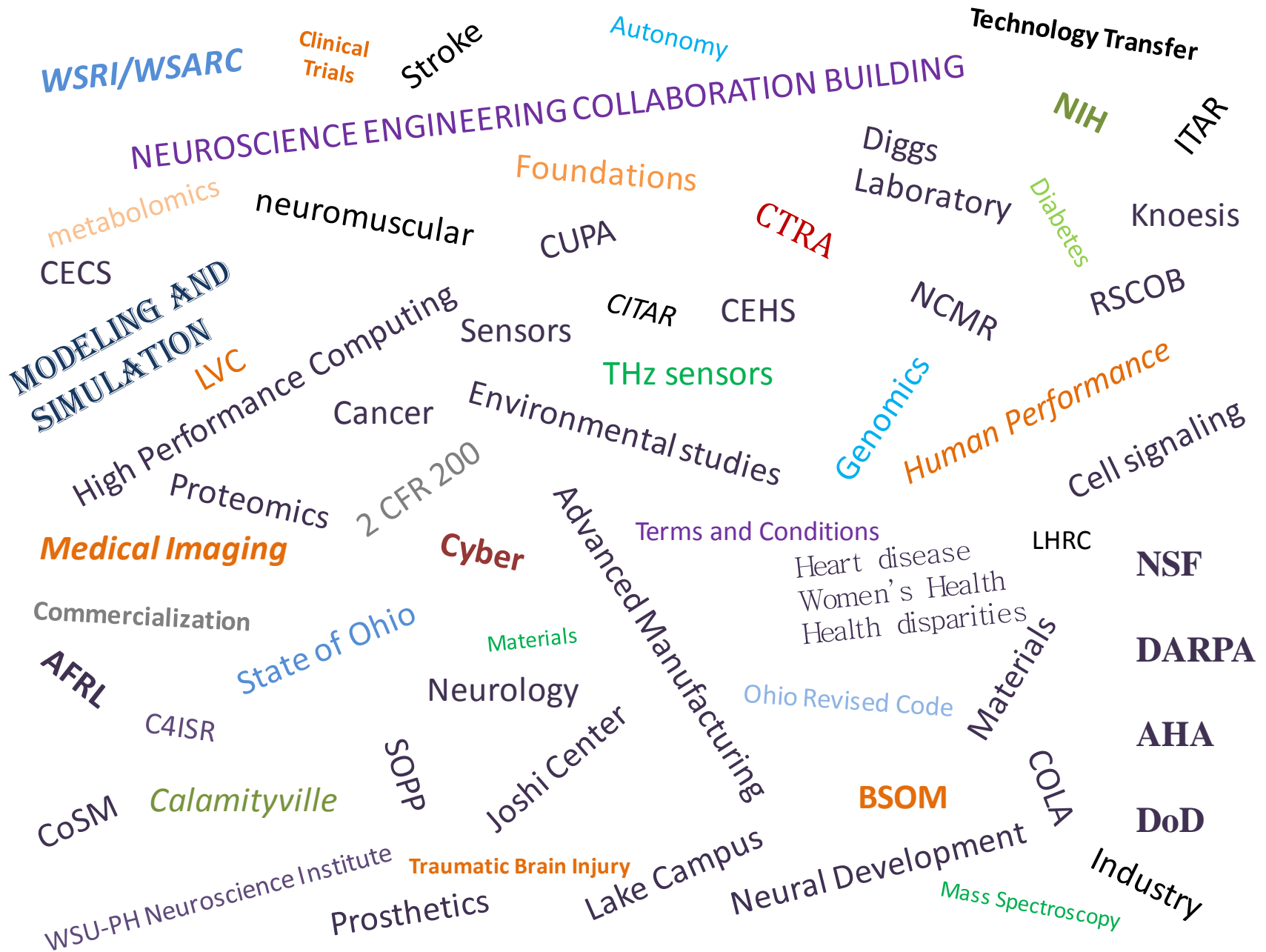
Research Compliance and Alignment

Robert Fyffe PhD

Vice President for Research and Dean of the Graduate School

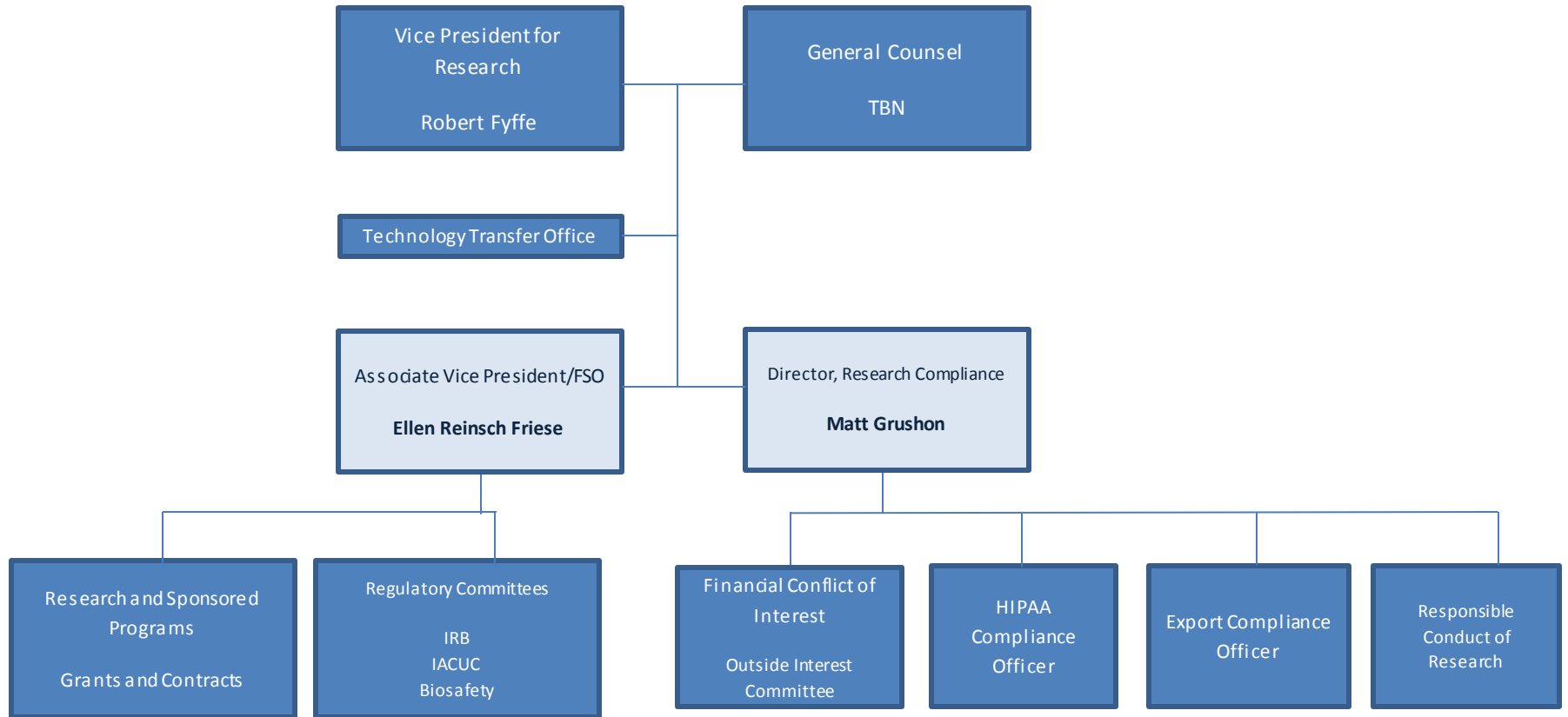
October 12, 2015; Faculty Senate

THE COMPLEX AND RAPIDLY EXPANDING WORLD OF WSU RESEARCH

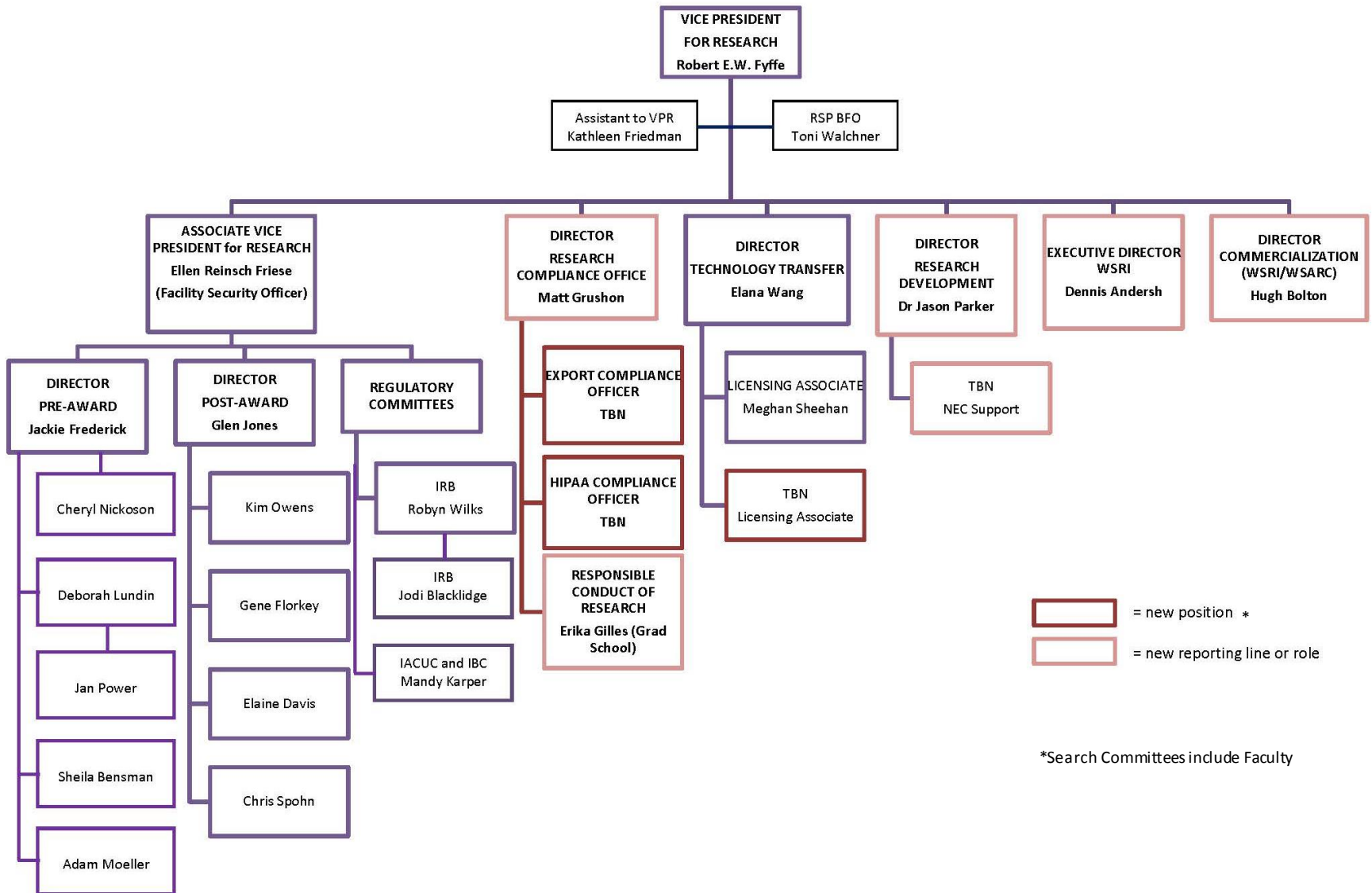


Research Compliance

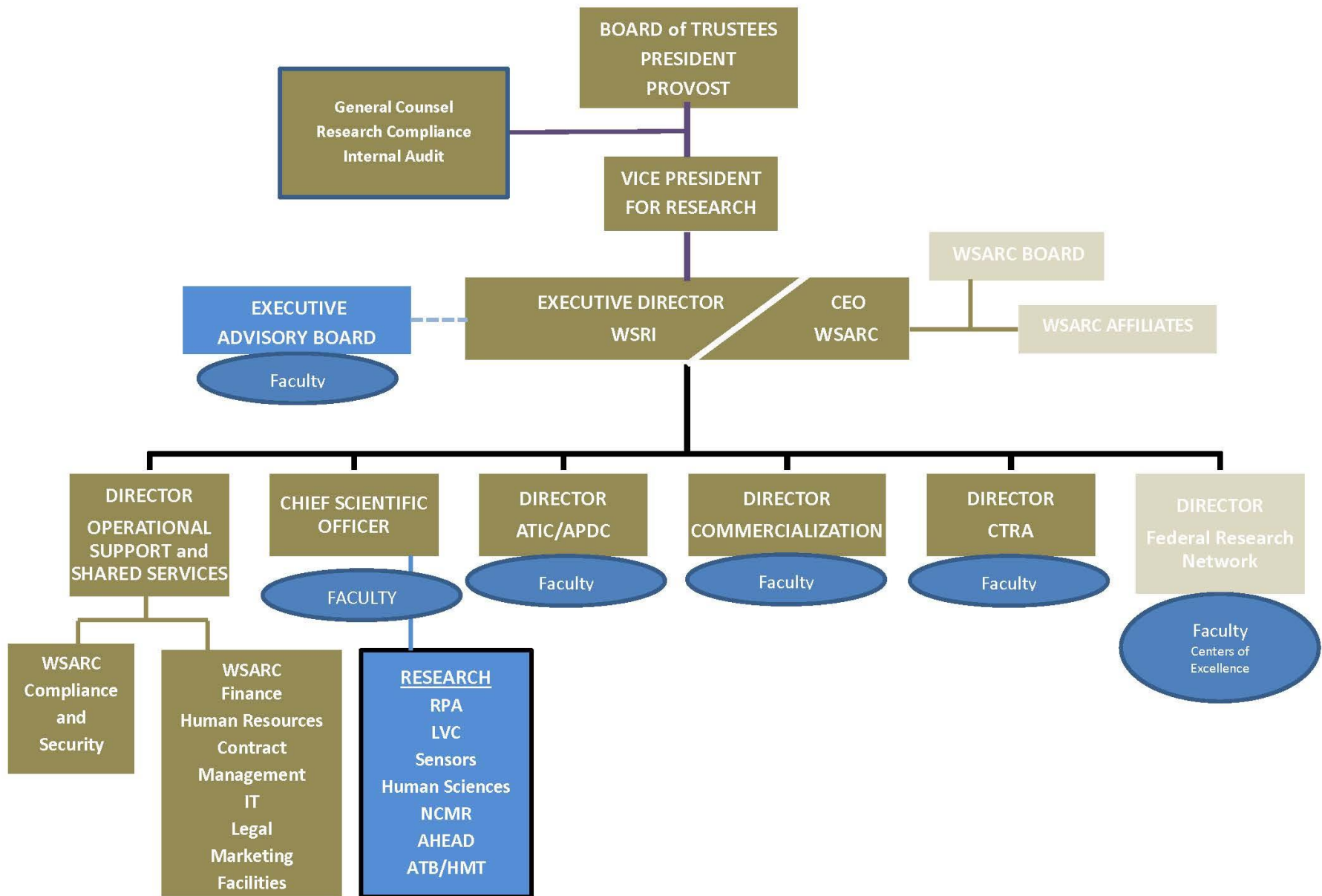
Research Compliance



Research and Research Compliance Alignment



WSU – WSRI – WSARC Research Alignment



Executive Advisory Board (EAB)

- Provost (Chair)
- Executive Director, WSRI (*ex officio*)
- VP Business & Finance/WSU CFO
- Director of Research and Development
- Chief Science Officer, WSRI
- Director, CTRA
- **Faculty Representatives (TBN)**
- Director, WSARC Commercialization
- Director, WSARC Operational Support & Shared Services
- WSU General Counsel

Roles

- Compliance with Affiliation Agreement
- Scientific direction and strategy
- Faculty Engagement Team
 - College and faculty meetings
 - Project teams and leaders
 - Fiscal Performance Review

Other Faculty Opportunities



Construct for Ohio Centric Center of Excellence (COE) Federal Research Network (FRN)

Air Force Research Laboratory (AFRL) Priorities

- Human Performance/ Health Care
- Hypersonics
- Directed Energy Weapons (Lasers)
- Autonomy
- C4ISR
- LVC
- Materials/Manufacturing
- Propulsion

NASA Glenn Research Center (GRC) Priorities

- Hybrid Electric Power and Propulsion
- Advanced Communications
- Solar Electric Power and Propulsion
- Energy Storage (Enabler for others)
- Materials and Manufacturing

State of Ohio

Executive Review Board

3 WP and GRC Reps (Ex Officio)
1 OFMJC Commissioner
1 JobsOhio Rep
1 Third Frontier Exec
4 Private Industry,
4 University (1 State Supported, 3 State Funded)
Rotates every 2 years.

Technical Review Council

3 WP and GRC Reps (Ex Officio)
4 Rotating VP of Research or Deans of Engineering at Ohio Universities
4 Private Industry CTO or Dir of Engineering
1 Third Frontier Rep
Rotates every two years.

Wright State University Applied Research Corporation

Human Performance and Human Sciences COE WSU

(Dr Tim Broderick /
Dr Chad Reiter)

Power and Propulsion COE

Ohio State University
(Dr. Mike Benzakein)

Materials and Adv Manufacturing COE

University of Dayton
(Dr. John Leland)

Advanced Communications, COE

Ohio University
(Mr. Trent Skidmore
Dr. Shawn Ostermann)

C4ISR and Data Analytics COE

WSU/OSU
(Dr Brian Rigling /
Dr Greg Creech)

Energy Storage and Integration COE

Case Western Reserve U.
(Dr. Alexis Abramson)

Commercialization and Workforce Development Support

(Dr. Jerzy Sawicki(CSU)
Ms. Tracy Green(LCCC))

National Air and Space Intelligence Center (NASIC) Priorities

- Cyber
- Data analytics
- C4ISR
- Modeling/Simulation/Analysis
- Hypersonics
- Directed Energy

Naval Medical Research Unit (NAMRU) Priorities

- Human performance
- Human physiology
- Manned / unmanned aeromedical ops
- Toxicology
- Risk assessment

Recent Collaborative Projects and Contracts

- **Wins**

- AFRL/RYA: \$14M, SIRCUS, [Awarded](#) (Rigling) RSP
- DARPA BTO: \$356.4k, HAPTIX [Awarded](#) (Elbasiouny) WSARC
- DARPA STO: \$1.7M, Target recognition and Adoption in Contested Environments (TRACE) [Awarded](#) (Rigling) RSP
- ONR: \$750K, Lapses of Attention Predicted in Semi-structured Ecological Settings (LAPSES), [Awarded](#) (Minnery, with Profs. Assaf Harel & Ion Juvina) RSP
- ONR: \$500K, Cognitive Modeling [Won](#) (Minnery) RSP
- CTRA Funding for Oncology Research [in Negotiation](#) (Fyffe, Pickoff/Wysong/Freidman) RSP/WSU Foundation
- CTRA Pharmaceutical Companies: 13 New Clinical Trials in CY 2015 [awarded](#) (CTRA Team / multiple Physician PIs) RSP
- CTRA Premier Health: \$800K, CTRA Infrastructure, [Awarded](#) (Wysong) RSP
- CTRA Premier Health: \$650K, MVH Clinical Research Support, [Awarded](#) (Wysong / Burnside) RSP
- CTRA Premier Health: \$150K, Healthcare Analytics and Big Data, [Awarded](#) (Wysong) RSP
- AFRL/RH \$200K Ball HIRT contract [In negotiations](#) (Elbasiouny) WSARC
- NSF: \$175k, Intelligent Agent Incident Command System Augmentation, [Awarded](#) (Ganapathy, NCMR-Gruenberg) RSP

Recent Collaborative Projects and Contracts

Ongoing Proposals

- AFRL/RH: \$2.5M, New LVC contract; Ganapathy. [Submitted](#). (Norell) WSARC
- AFRL/RY: \$1M, Applications in Computational and Experimental Electromagnetics; Petke, Saville, Nerbass. [White Paper Submitted](#) (Norell) WSARC
- ONR: \$7.5M, MURI - The Role of Epigenetics in Human Performance; Broderick, Kadakia, Raymer. [White Paper Selected](#) (Broderick) BSOM
- AFRL/RY: \$42.5M, MOAST; Awaiting BAA release, in Pursuit, (Morrow) WSARC
- ARO/ARL: \$420K, Maximizing the Collective Intelligence of a Network Using Novel Measures of Socio-Cognitive Diversity; Sheth, Shalin. [Proposal in Progress](#) (Minnery) RSP
- Pharmaceutical Companies: Selected as a Site for 8 new studies that will start in CY2015 (CTRA Team) RSP
- CTRA Actively managed pipeline of 179 clinical trial opportunities in 25 therapeutic areas (Friedman) RSP
- CTRA Children's Medical Center proposal to join the CTRA (Pickoff, Friedman, Wysong) RSP
- CTRA Dayton VA clinical trials collaboration (Pickoff) RSP
- CTRA WPAFB clinical trials collaboration (Friedman / Carstens) RSP
- CTRA UC clinical trials collaboration (Friedman) RSP
- OFRN: \$1.47M, Platform for Functional Optical Imaging and tDCS; Sunar. [White Paper Submitted](#) (Miller) WSARC
- OFRN: \$1.18M, Improving Healthcare Training and Decision Making through LVC; Ganapathy. [White Paper Submitted](#) (Miller) WSARC
- OFRN: \$1.21M, Collaborative Micro-robot Teams in Constrained Worlds; Bourbakis. [White Paper Submitted](#) (Miller) WSARC
- OFRN: \$800K, Multispectral Aperture Sensor Common Testbed for Sensing (MASCOTS); Rigling. [White Paper Submitted](#) (Morrow) WSARC
- OFRN: \$501K, Cyber and C4ISR Security: HW Security and Trust for Integrated Circuits; Emmert. [White Paper Submitted](#) (Morrow) WSARC
- OFRN: \$1.5M, Collaborative C4ISR Center; Rigling. [White Paper Submitted](#) (Morrow) WSARC

Not funded but now pursuing Seedling Programs

- DARPA BTO: \$15.9M, Electric-Rx; Kadakia, Raymer, Cool, Boivin. Proposal Submitted (Reiter/Broderick) WSARC. [LOST, working a seedling at DARPA.](#)
- DARPA I2O: \$6.1M, CwC Proposal; Ganapathy. Submitted (Cox/Minnery) RSP. [LOST, working a seedling at DARPA.](#)
- ONR: \$6.25M, MURI - Dynamic Representational Networks as Neural Signatures of Expertise; Harel. White paper submitted. (Minnery). [not invited to submit full proposal, working seedling at DARPA, IARPA.](#)

