

The Operations Function: How Directors are Getting it Done

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Center for Agricultural, Biomedical, and Pharmaceutical
Nanotechnology

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About the CABPN IUCRC:

- **CABPN** – Center for Agricultural, Biomedical, and Pharmaceutical Nanotechnology
- Currently in **Phase 1**
- CABPN started as an IUCRC, Phase 1 began on **February 1, 2011**
- CABPN is a single-site University hosted at the University of Illinois
- Actively recruiting partner universities
- The Center Develops Nano-based Sensors and Nanoparticle delivery for Agriculture, Biomedical, and Pharmaceutical Applications



CABPN Scope

Innovative Nanotechnology tools applied to agriculture and medicine



CABPN Organizational Structure



Dr. Brian Cunningham
CABPN Director
ECE / BioE
Biomedical imaging
Bioengineering
Nanophotonics



Gregory Pluta
CABPN Managing Director



Dr. Rashid Bashir
ECE / BioE
CABPN co-PI
MNTL Director
Nano-biotechnology



Dr. Irfan Ahmad
ABE
CABPN co-PI
CNST Exec. Director
Agricultural image processing,
Soil sensors, systems integration



Dr. Paul Hergenrother
Chemistry
CABPN co-PI
Novel anti-cancer targets
Novel targets for drug-resistant
bacteria



Dr. Lila Vodkin
Crop Sciences
CABPN co-PI
Functional Genomics
Molecular biology, Biochemistry



Dr. Rohit Bhargava
BioE
Cancer Pathology
Spectroscopic Imaging
Molecular Imaging



Dr. Jianjun Cheng
MatSE
Nanomaterials for
nanomedicine,
tissue engineering



Dr. William Helferich
FSHN
Food Safety
Toxicology



Dr. Logan Liu
ECE / BioE
Biomolecular sensing
Nano-bio hybrid molecules
Spectroscopic imaging

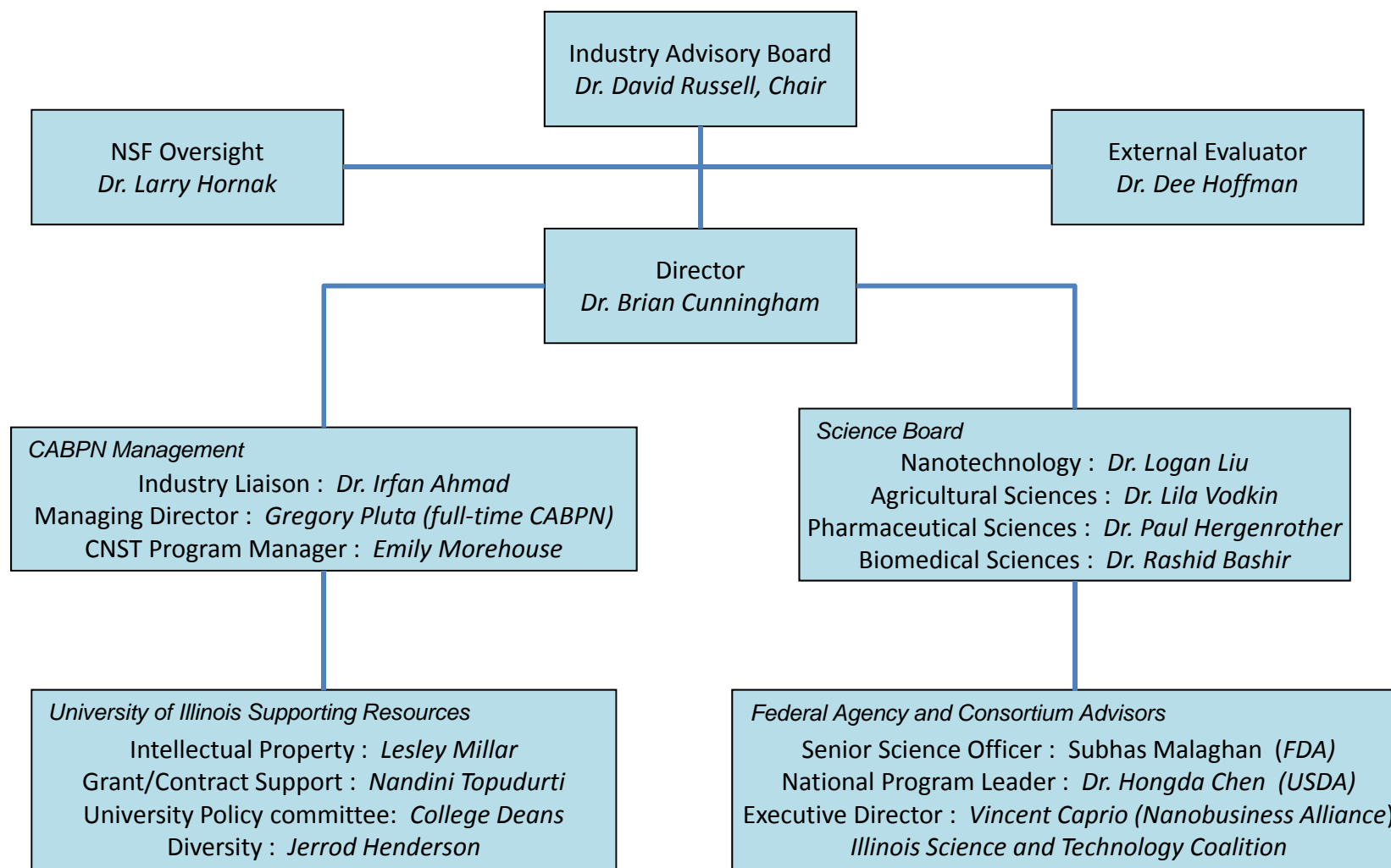


Dr. Paul Kenis
Chemical & Biomolecular Eng.
Microscale devices



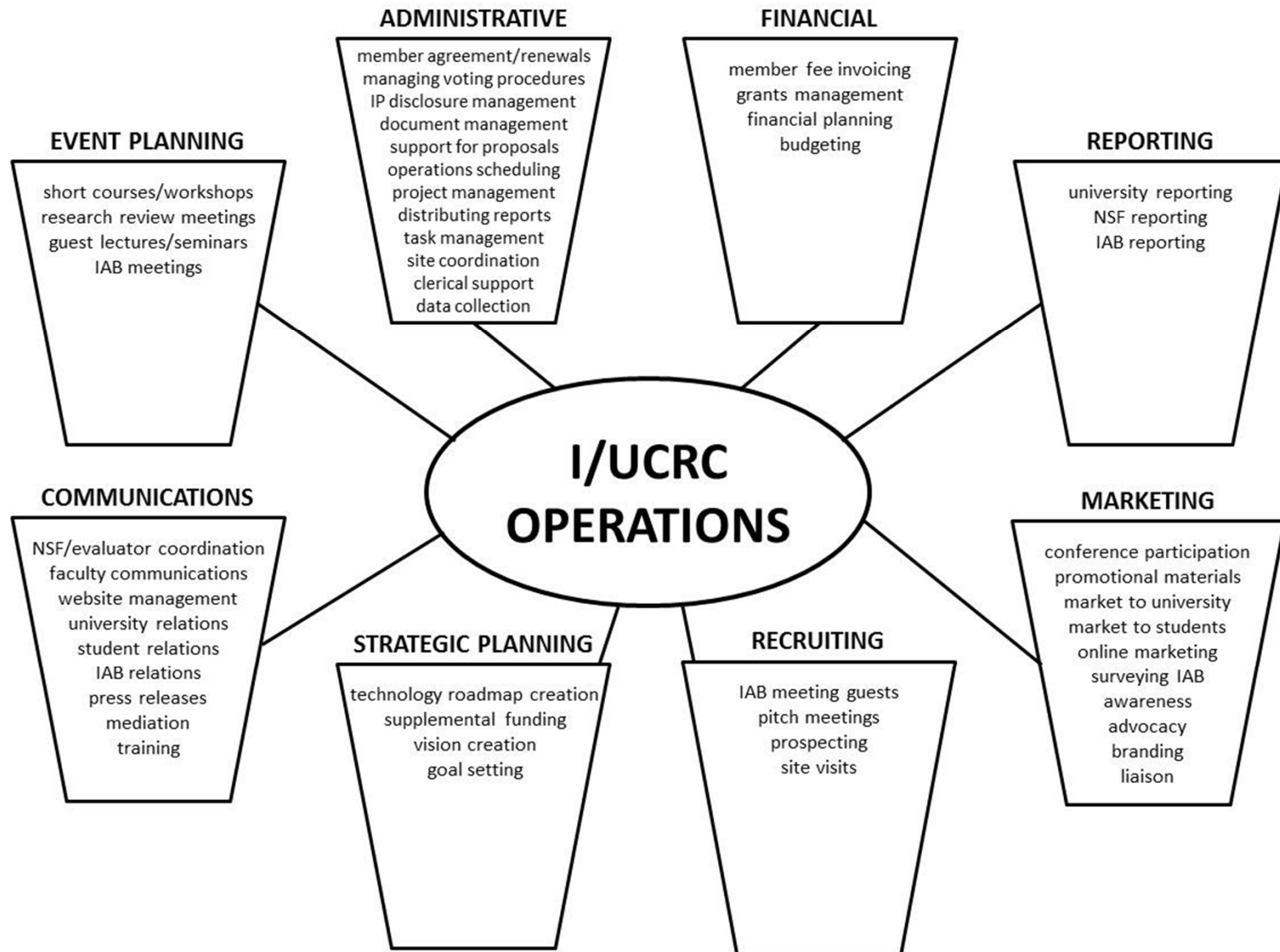
Dr. Jozef Kokini
FSHN
Food Nanotechnology
Developing bioactive
nutraceuticals

CABPN Organization Chart



CABPN Operations Function

The “Bucket List”



I/UCRC OPERATIONS

ADMINISTRATIVE

- ▲ member agreement/renewals
- ▲ managing voting procedures
- IP disclosure management
- ▲ document management
- ▲ support for proposals
- ▲ operations scheduling
- ▲ project management
- ▲ distributing reports
- ▲ task management
- site coordination
- clerical support
- ▲ data collection

FINANCIAL

- ▲ member fee invoicing
- ▲ grants management
- ▲ financial planning
- ▲ budgeting

REPORTING

- ▲ university reporting
- ▲ NSF reporting
- ▲ IAB reporting

EVENT PLANNING

- ▲ short courses/workshops
- ▲ research review meetings
- ▲ guest lectures/seminars
- ▲ IAB meetings

MARKETING

- ▲ conference participation
- ▲ promotional materials
- ▲ market to university
- ▲ market to students
- ▲ online marketing
- ▲ surveying IAB
- ▲ awareness
- ▲ advocacy
- ▲ branding
- ▲ liaison

COMMUNICATIONS

- ▲ NSF/evaluator coordination
- ▲ faculty communications
- ▲ website management
- ▲ university relations
- ▲ student relations
- ▲ IAB relations
- ▲ press releases
- ▲ mediation
- training

RECRUITING

- ▲ IAB meeting guests
- ▲ pitch meetings
- ▲ prospecting
- ▲ site visits

STRATEGIC PLANNING

- ▲ technology roadmap creation
- ▲ supplemental funding
- ▲ vision creation
- ▲ goal setting

- Center Director
- Center co-PI's
- ▲ Managing Director
- ▲ Dept & Univ. business office
- Clerical staff
- Office of Technology Management

○ not done at this center

What works well for CABPN using this approach?

- With IAB input, it is easy to make changes with a single university.
- Monthly Webinars, coordinated through a single university, is an easy way to develop effective IAB and Faculty team. (We use WebEx)



What's not working so well?

- IP is a major issue for Nanotechnology in Biomedical and Pharmaceutical Industries.
- Membership was set low, \$25k per IAB member, \$400k required means each membership funds a small amount of research and we need many companies.
- Recruiting University Partners takes time, not always compatible with existing programs/centers.

