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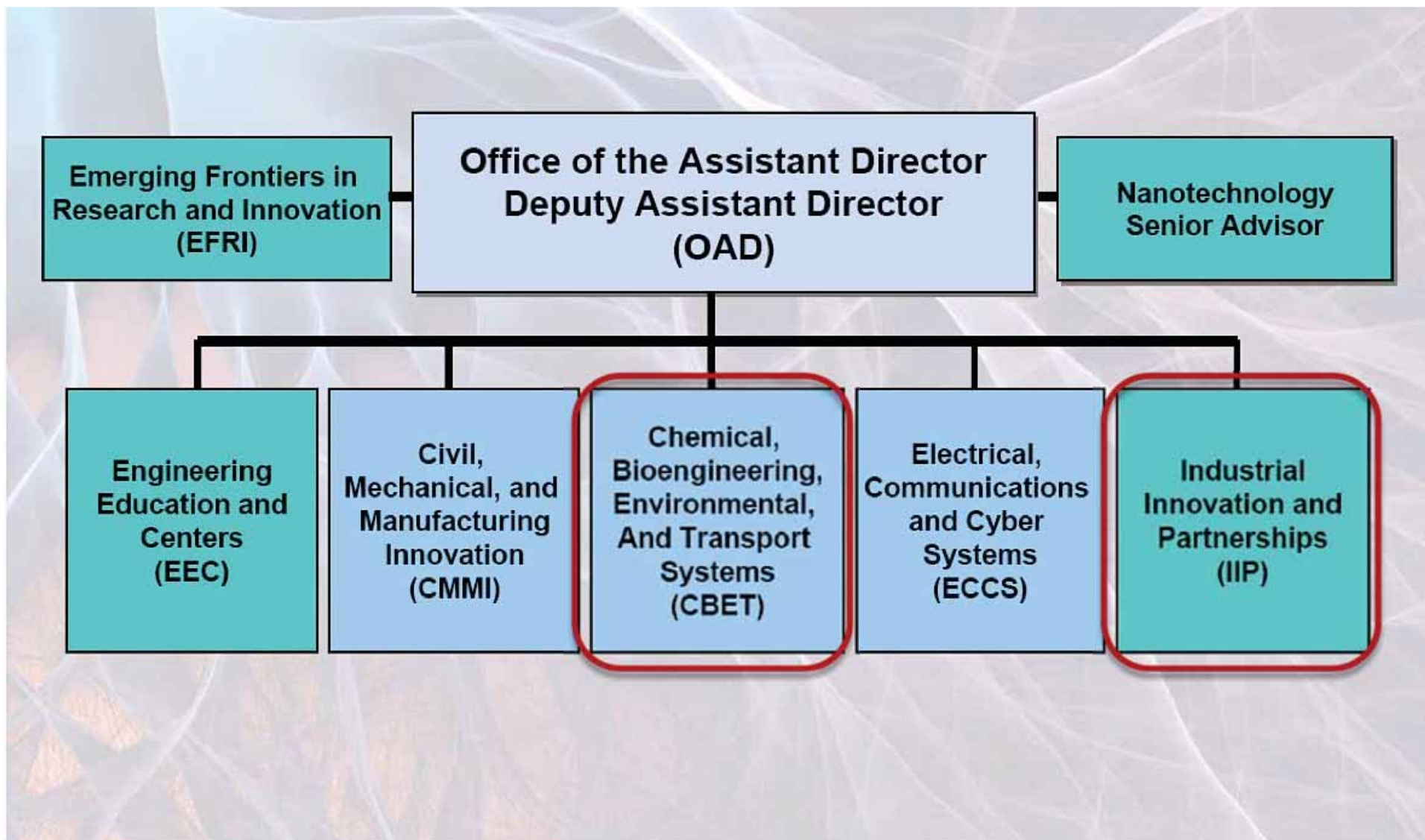
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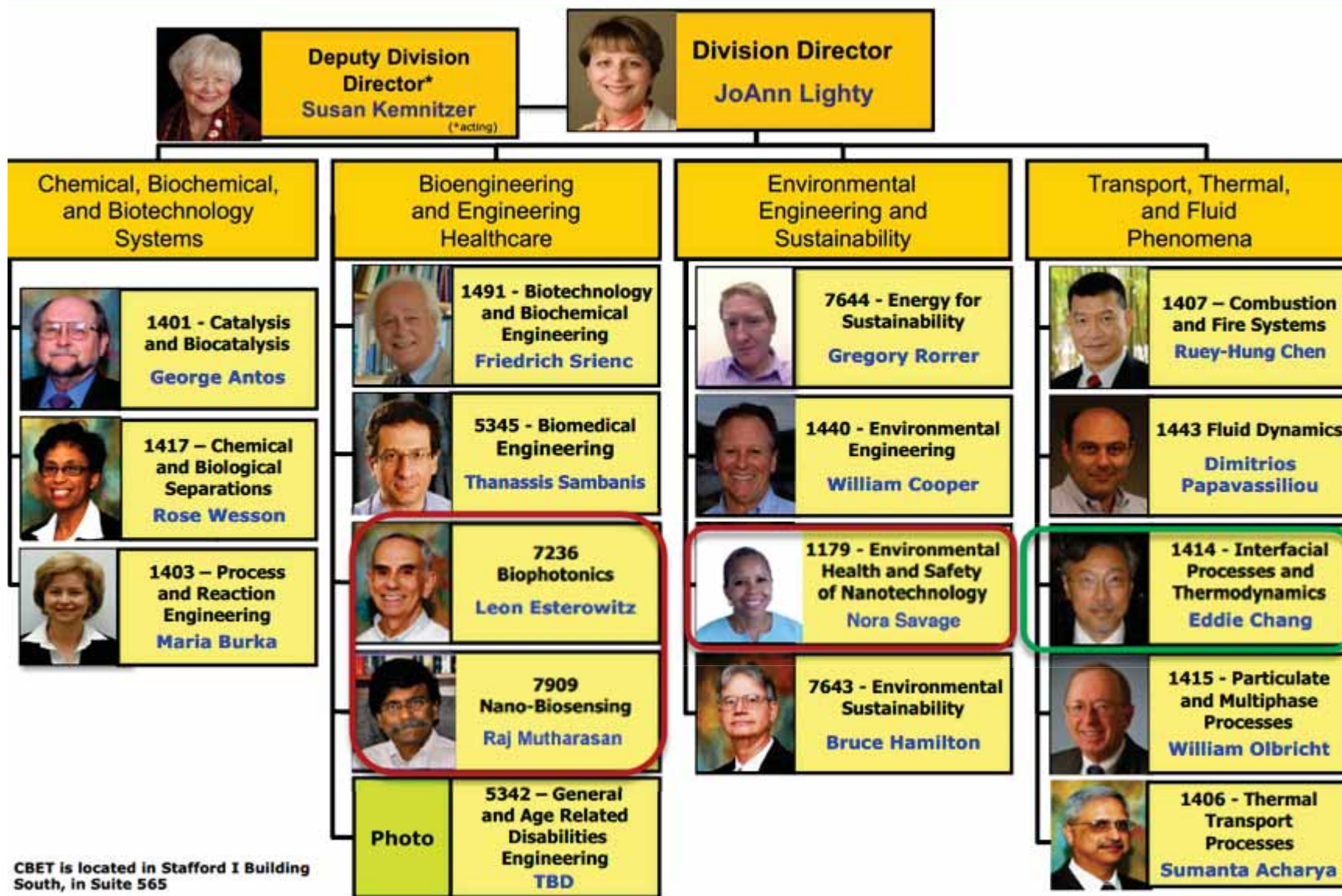


Engineering Directorate





Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET)





ENG Programs

Biophotonics (Leon Esterowitz):
Nanoscale sensing, optogenetics,
nanophotonics

Nano-Biosensing (Raj Mutharasan):
Multifunctional nanomaterials for
biosensing, nano-interfaces, -
biosensors

EHS-Nanotech (Nora Savage):
Impact of complex/heterogeneous
nanomaterials on health, safety,
prevention, tools

SBIR/STTR (Ruth Shuman/Ben Schrag):
Early stage R&D for transformational
tech, high risk/high potential



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[Map of Recent Awards Made Through This Program](#)

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30 per page Table | List

INSPIRE: Mimicking the Functional Complexity of Biology with Man-Made Systems

Award Number:1243082; Principal Investigator:Neal Woodbury; Co-Principal Investigator:Hao Yan, Stephen Johnston, Stuart Lindsay, Robert Gennis, Colin Wraight; Organization:Arizona State University;NSF Organization:MCB Award Date:07/15/2012; Award Amount:\$999,904.00; Relevance:48.0;

[A Single Particle Imaging Approach for the Detection of Virus Phenotypes in a Mixture](#)



Biophotonics/EFRI: Next Gen on-Chip Platforms



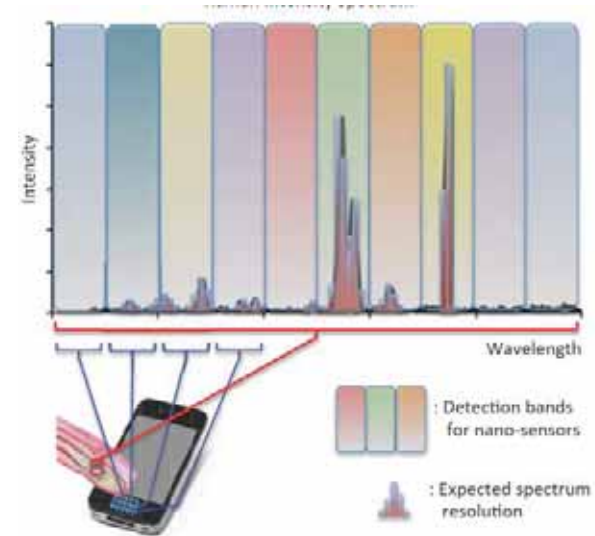
camera



ear-plugs



fingers and palms



Josep Jornet, SUNY at Buffalo

- Multiplexed diagnostics integrating:
 - Nanobiosensors with nanofluidic delivery
 - Nanophotonic waveguides and arrays
 - Mini-light sources
 - Software and processing algorithms
 - Shared data = big data



NSF SBIR/STTR

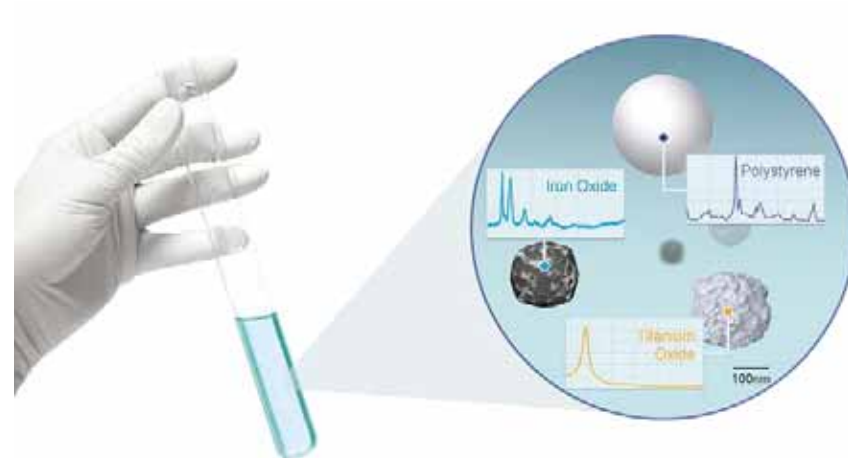
Early-stage research and development at small businesses:

Phase I: 150 - 225 k/6-12 mos.

Phase II: 750 k/2 yrs

Phase IIB: private sector + 500 k/2 yrs

Optofluidics*:
Near-field Raman for
particle identification



*<http://www.opfluid.com/#!nanoparticle-identification/c1ygk>