



Funding Mechanisms Seedlings and BAAs

**Henryk Temkin
DARPA/MTO Young Faculty Workshop**

November 16-17, 2006

Biography:

- DARPA Program Manager
 - Microsystems Technology Office (MTO)
- Work History
 - Professor of Electrical Engineering, Colorado State and Texas Tech, 15 years
 - Member of Technical Staff, Bell Labs, 15 years
- Education
 - B.S., University of Brussels, '69
 - M.S. Physics, Yeshiva University, '71
 - Ph.D., Physics, Stevens Institute of Technology, '75
 - Cornell University, Post-doc, '77
- Key interests
 - Photonic devices and systems
 - Semiconductor materials and device structures
 - Detection of CBAa
 - Quantum mechanics



Current DARPA Programs

- Laser Photoacoustic Spectroscopy (L-PAS)
- Optical Code Division Multiple Access (OCDMA)
- Deep Ultraviolet Avalanche Photodiodes (DUVAP)
- Semiconductor AlGaIn Injection Lasers (SAIL)
- Photonic Technology Access Program (PTAP)
- Efficient Mid-IR Lasers (EMIL) – with Mark Rosker

Active Projects

- Young Faculty Award (YFA)
- Nanostructure Architectures for Coherent Hyper-Optics Sources (NACHOS)
- Visible InGaIn Injection Lasers (VIGIL)
- Parametric Optical Processes and Systems (POPS)

- A concept is validated by studies, literature search, discussions with contractors etc.
- A workshop is held to find out who is working on the subject and what do they have
- BAA is approved and published
- White paper solicitation (2 months, includes review)
- Full proposal solicitation (2 month, includes review)
- Source Selection (2-6 month)
- Contracting (up to 6 months)
- Program Start

- Read the BAA and think of what is requested
- Talk to the PM to clarify and to understand the scope of the BAA
- Think of how your research fits into the BAA (it might not!). Bring in collaborators if this helps you being more responsive to the BAA (but only if it does)
- Write a white paper describing your idea and the proposed work:
 1. Describe a logical and plausible path to the solution (it may change as you do research).
 2. Describe any challenges that you anticipate and discuss ways of addressing them (you get funded to address challenges)
 3. Focus on the problem, do not describe research that is not relevant to the BAA (no matter how good it makes you look; less is more!)
- 2. Provide clear and descriptive graphics – a PM will have to describe your idea.

C³I or
Clear
Concise
Compelling
Informative

For any BAA the review panel will go through 30-50 proposals, each ~ 20 pages long.
Make your proposal stand out.

If you cannot present your ideas clearly then
who will?