

OCCN/LAACN Breakfast Meeting

Saturday June 18th
9:00-10:30 AM

at

El Torito Mexican Restaurant
15042 Goldenwest Street
Westminster, CA

Everyone interested in Consulting is invited to attend our monthly get together to discuss the consulting opportunities and activities in the LA and OC technical community. OCCN and LAACN or continuing their early breakfast meeting format for their monthly meeting to allow more personal interaction among the members and make more of Saturday available for personal activities. These monthly meetings?3rd Saturday of each month?will be augmented with special activities, such as the upcoming SBIR Seminar this Fall which will focus on providing information to those interested in pursuing government contracts through the Small Business Research Innovations program.

The Agenda for the meeting ?eat while we talk?will include:

National Activities Update:	Bob Gauger
Local Activities Update	Wes Masenten
SBIR Seminar Status?Fall 2005:	Wes Masenten
Discussion of Consulting Opportunities	

The meeting will be held at El Torito Mexican Restaurant where you can enjoy their breakfast buffet while we go over the agenda and also have the opportunity to network with fellow consultants. El Torito is just West off 405 Freeway at Bolsa and Goldenwest in Westminster.

Wes Masenten
OCCN, Chair

**CONVERTING YOUR INNOVATION INTO A SUCCESSFUL BUSINESS
USING SBIR FUNDING –
How to Improve Your Prospects For Successful Business Capture
and Securing Venture Capital**

When: Monday, May 23, 2005
6:00 PM Networking -- 6:25 Dinner -- 7:00 Presentations

Where: Doubletree Club Hotel - 714-751-2400
7 Hutton Centre Drive, Santa Ana, CA,

MAP: http://doubletree.hilton.com/en/dt/hotels/maps_directions.jhtml?ctyhocn=SNAFMDT#localmap

RSVP: Please RSVP, even if you only plan to come for the talk
NEW: RSVP and prepay for dinner online at: <https://www.123signup.com/event?id=fjhnv>
Or RSVP the old fashioned way by email or phone:
occs-rsvp@hotmail.com or call 714-762-1941

<i>COST of Dinner</i>	<i>RSVP by May 18:</i>	<i>RSVP May 19-21:</i>
<i>Members -</i>	\$25	\$30
<i>Nonmembers -</i>	\$30	\$35
<i>Students & unemployed members-</i>	\$15	\$30
<i>Presentation Only</i>	<i>Free</i>	<i>Free</i>

(Please bring membership card)

Questions? – Don V. Black at dblack@ieee.org or 949-548-1969,
or Ron Oglevie at RonOglevie@aol.com

ABSTRACT - The Federal Small Business Innovation Research (SBIR) Program is a potential source of early-phase funding and mentoring for your small business. SBIRs can provide both the seed money to develop initial concepts, and also fund their development to the point that they can attract venture funding. The advantages and disadvantages of pursuing SBIR funding will be treated. Particular emphasis will be placed on how to compete successfully. Despite an abundance of SBIR information (web sites, seminars, short courses and conferences), many proposals fail, resulting in disenchantment with the program and without really understanding what it takes to win. At this meeting you will hear how to improve your prospects of winning, including:

- Who should pursue SBIR funding—is it for you?
- What type of work can be funded?
- Can I protect my innovations while still participating—if so how?
- Winning strategies for SBIR business acquisition
- What are the critical elements of a winning proposal?

Due to time limitations the presentors will be summarizing the highlights, and a more detailed seminar is planned for the fall. To provide us with an “insider perspective” we have sought out three local experts with exceptional records of SBIR business capture, and who are willing to share their insights with us. You can expect to hear many things that the Feds and most winners won’t tell you:

OUR SPEAKERS:

Ms. Vivian Lauderdale, MS, MBA, RAC is Managing Partner of SciBiz Services, LLC (www.scibiz.net), which maintains a network of scientists and technical writers who specialize in writing winning SBIR/STTR proposals in the health and biological sciences-related industries, funded by such diverse agencies as NIH, DOD, NASA, NSF, DOJ, USDA and Homeland Security. She is a registered grant writing consultant through the San Diego and Los Angeles Regional Technology Alliance (www.sdrta.org), teaches “Winning SBIR/STTR Proposal Writing” for the LARTA, and is a registered grant reviewer with the State of Alaska. With an extensive background in medical product development, including basic research and regulatory affairs, she and her team have the skills to help you understand the complex process of strategizing and proper communication to obtain funding for your innovative project.

Dr. Richard Nelson has a unique blend of industrial and academic research and development experience. With over 20 years experience in product and business development, and strategic planning, with Rockwell International and Ford Aerospace, he subsequently co-founded a high tech small business whose speedy growth was fueled by winning 10 of 11 SBIR proposals. At UC Irvine, he was Founding Director of the MEMs Laboratory and has current research projects in micro-optics, nanofluidics, and material science. He currently teaches courses in “Fundamentals of Semiconductor Devices”, and “MEMS – Principles, Applications, and Markets”. His participation in SBIR has continued at UCI, and more recently as a subcontractor in a number of SBIR proposals under a UC matching funds program. He will describe this program and it’s benefits for SBIR bidders. For more see <http://newport.eecs.uci.edu/~rnelson>.

Ron Oglevie is the Technology Director for the Irvine Innovation Institute, specializing in research and technology development primarily in the Aerospace field. He has been the Principal Investigator and Proposal Manager on 4 successful Phase I and Phase II SBIR proposals and contracts. All research goals were successfully achieved within budget. He formulated the *Structured Government Business Development Strategies* employed in capturing this business, and has 100% capture ratio on the last seven technology proposals that he managed. (RonOglevie@aol.com)

PREREQUISITES? – Like to know more about SBIR?

- The SBIR program - <http://www.sba.gov/sbir/indexsbir-sttr.html#sbir> , and/or www.zyn.com
- Examples of currently active solicitations – (link to Lauderdale solicitation file, sent to webmasters as a separate file)

MORE INFORMATION? – For a more complete announcement and speaker biographies, or if your browser doesn’t recognize the hyperlinks, go to www.occn.org.

PROGRAM COSPONSORS – Orange County IEEE Computer Society (<http://ewh.ieee.org/r6/ocs/cs/>), IEEE Orange County and Los Angeles Area Consultants' Networks (www.occn.org and www.laacn.org), and the AIAA-LA Section-Enterprise Network (<http://www.aerowebpace.com/AIAA/home.shtml>).

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NEW: RSVP and prepay for dinner online at:
<https://www.123signup.com/event?id=fjhnv>
Or RSVP the old fashioned way by email or phone:
ieee-occs@hotmail.com or call 949-574-9565

<u><i>COST of Dinner</i></u>	<u><i>With RSVP:</i></u>	<u><i>No RSVP</i></u>
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<i>Students & unemployed members- \$15</i>		<i>\$30</i>
<i>Presentation Only</i>	<i>Free</i>	<i>Free</i>

Cosponsored by: IEEE-OCCS, OCCN, LAACN, and AIAA Enterprise Network

Questions? - Email Don V. Black at dblack@ieee.org ,
or Ron Oglevie at RonOglevie@aol.com

ABSTRACT - The Federal Small Business Innovation Research (SBIR) Program is a potential source of early-phase funding and mentoring for your small business. SBIRs can provide both the seed money to develop initial concepts, and also fund their development to the point that they can attract venture funding. The advantages and disadvantages of pursuing SBIR programs to initially fund or expand your business will be discussed in this meeting.

Particular emphasis will be placed on how to successfully compete for SBIR funding. Despite an abundance of SBIR information (web sites, seminars, short courses and conferences), many proposals fail, resulting in disenchantment with the program without really understanding what it takes to successfully pursue SBIR funding. Due to the time constraints of the meeting, the presentations will be limited to a quick overview, with a more detailed seminar/workshop planned for the fall. At this meeting you will hear how to improve your prospects of winning, including:

- Who should pursue SBIR funding—is it for you?
- What type of activities are funded?
- Can I protect my innovations while still participating—if so how?
- Winning strategies for SBIR business acquisition
- What are the critical elements of a winning proposal?
- Where do I go from here?

To address these issues with an “insider perspective” we have sought out three local experts, all with exceptional records of SBIR business capture, and who are willing to share their insights and secrets with us. You can expect to hear many things that the Feds and most winners won’t tell you:

OUR SPEAKERS:

Ms. Vivian Lauderdale - Managing Partner of SciBiz Services, LLC (www.scibiz.net), a network of scientists and technical writers who specialize in writing winning SBIR/STTR proposals. She has an MS from George Washington Medical School and an Executive MBA from UCLA, specializing in medical instrumentation and biotechnology projects, including research, development and business/marketing. She is also certified in Regulatory Affairs for biomedical business regulatory strategy/implementation. She spent twenty-five years commercializing medical products at established companies like Beckman Instruments, and start-up companies like Molecular Biosystems/Syngene, La Jolla Pharmaceuticals and CCC Diagnostics, LLC.

She has leveraged her experience in putting together the science and business basics to successfully get government grants, like SBIR and STTR that fund research of promising innovative technologies. She has worked with many Principal Investigators as Proposal Project Manager/strategist

and technical writer to help win over 15 proposals, as well as exploratory grants and transitional research grants from NIH, DOD and NSF.

She is a member of the American Medical Writers Association, American Association for Clinical Chemistry, Regulatory Affairs Professional Society, Forum of Women Entrepreneurs and has been involved with numerous biomedical societies. She is a registered grant writing consultant through the San Diego and Los Angeles Regional Technology Alliance (www.sdrta.org), has taught grant-strategy classes for the LARTA, and is a registered grant reviewer with the State of Alaska.

Dr. Richard Nelson - Dr. Nelson has spent 21 years in industry and the last 11 eleven years in academia. This provides some unusual perspectives of industrial functions and basic research. Industrial management responsibilities at Rockwell International and Ford Aerospace included product



development, business development, management of division investments (including international research and development), and strategic planning. After leaving large business, he was co-founder of a high tech small business. Funding for this business was derived from government R&D grants, including SBIR grants. Winning 10 of 11 SBIR proposals was a key to a fast ramp-up. Participation in SBIR programs has continued after joining UCI. He has served as a subcontractor in a number of these programs.

Faculty at the University of California also have an opportunity to receive matching funds from California for advanced-technology programs. These matching funds allow achieving more program scope than can be accomplished by just the SBIR programs. For UCI activities, check out <http://newport.eecs.uci.edu/~rnelson>.

At UC Irvine, he was Founding Director of the major MEMs Laboratory and has current research projects in micro-optics, nanofluidics, and material science. He currently teaches an academic course "Fundamentals of Semiconductor Devices", and a UCI Extension course "MEMS - Principles, Applications, and Markets".

Current professional activities include (1) member of Board of Directors of Women Executives and Entrepreneurs, and (2) judge for the AeA (previously, American Electronics Association) to identify the most innovative new high-tech products.

Professor Nelson can be reached at rnelson@uci.edu.

Ron Oglevie - Chief Technology Officer and SBIR Coach with Irvine Innovation Institute. He specializes in research and technology development, with emphasis on the Aerospace field. He has been the Principal Investigator in 7 technology development contracts with the USAF and the NASA, including 4 Phase I and Phase II SBIR contracts, and managed the proposal development for all seven successful proposals. All research goals were successfully achieved within budget. He formulated the Structured Government Business Development Strategies employed in capturing this business, and has 100% capture ratio on the last seven technology proposals that he managed.

Earlier, with Rockwell, he demonstrated a consistent track record of innovative accomplishment including: pioneering developments in guidance for lunar & planetary landing, spacecraft rendezvous and docking, flight control, and dynamic systems; Space Station flight control; and, numerous unmanned space system flight control innovations. He has a BSE from UCLA and MSAE from USC. He is a Fellow of the IAE, an Associate Fellow of the AIAA and Member of their Enterprise Network, Member of the AAS, and, frequent officer of the Orange County IEEE Consultants' Network. He was Chairman of the OCCN Business Development Working Group for 8 years. He has presented over 20 technical papers, primarily in the areas of unique spacecraft guidance and control technology. (RonOglevie@aol.com)

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ABOUT THE PROGRAM SPONSORS - This program is sponsored and hosted by the Orange County IEEE Computer Society (<http://ewh.ieee.org/r6/ocs/cs/>). Other cosponsors include the IEEE Orange County and Los Angeles Area Consultants' Networks (www.occn.org and www.laacn.org) and, the Enterprise Network of the LA Section of the AIAA (<http://www.aerowebpace.com/AIAA/home.shtml>).

Solicitations that will be available post May 23 meeting time.

Open/Released Solicitations			
Program	Release Dates	Accepts Proposals	Closing Dates
DOT-SBIR (Dept of Transportation)	28 Feb 2005	28 Feb 2005	16 May 2005
NSF SBIR/STTR (National Science Foundation) Electronics (EL) & Security Technologies (ST)	15 Feb 2005	8 May 2005	8 Jun 2005
National Institutes of Health SBIR/STTR (Grants) Non-AIDS Related Topics PHS 2005-2 Omnibus	14 Jan 2005	14 Jan 2005	1 Aug 2005 1 Dec 2005
National Institutes of Health SBIR/STTR (Grants) AIDS Related Topics Only PHS 2005-2 Omnibus	14 Jan 2005	14 Jan 2005	1 Sep 2005 2 Jan 2006
Food & Drug / Center for Disease Control SBIR (Grants) PHS 2005-2 Omnibus	14 Jan 2005	14 Jan 2005	1 Aug 2005 1 Dec 2005

Future Solicitations			
<i>** dates are subject to change</i>			
Program	Release Dates	Accepts Proposals	Closing Dates
EPA Environmental Protection Agency	24 Mar 2005	24 Mar 2005	25 May 2005
DoD SBIR 2005.2 Department of Defense	2 May 2005	15 Jun 2005	15 Jul 2005
USDA SBIR US Dept of Agriculture	6 Jun 2005	6 Jun 2005	31 Aug 2005
DoD SBIR 2005.3 Department of Defense	1 Aug 2005	15 Sep 2005	14 Oct 2005

Samples of Upcoming Engineering Opportunities in SBIR/STTR

NIH

[\(SBIR/STTR\) HHS/NIH-NICHD - Medical Rehabilitation Research](#)

Medical Rehabilitation Research SBIR/STTR PHS 2005-2 Grants DHHS/NIH-NICHD - National Institute of Child Health and Human Development (NICHD) This Center supports innovative research on the restoration, replacement, enhancement or adaptation of function for people with chronic physical disabilities. This includes rehabilitative approaches across etiologies and the lifespan, as well as th....

[\(SBIR/STTR\) HHS/NIH-NIEHS - Hazardous Waste Assessment, Evaluation and Remediation Program](#)

Hazardous Waste Assessment, Evaluation and Remediation Program SBIR/STTR PHS 2005-2 Grants DHHS/NIH-NIEHS - National Institute of Environmental Health Sciences (NIEHS) NIEHS is interested in applying biotechnology and bioengineering approaches for the development of novel strategies that can be used to assess and evaluate exposure to hazardous waste; characterize an....

[\(SBIR/STTR\) HHS/NIH-NIDCR - Biotechnology and Biomaterials](#)

Biotechnology and Biomaterials SBIR/STTR PHS 2005-2 Grants DHHS/NIH-NIDCR - National Institute of Dental and Craniofacial Research (NIDCR) Emphasis is on the development of natural and synthetic materials to be used for the repair, regeneration, restoration and reconstruction of oral tissues and organs; on the development and improvement of evaluation an....

CDC

[\(SBIR/STTR\) HHS/CDC-NIOSH - National Institute for Occupational Safety and Health](#)

National Institute for Occupational Safety and Health SBIR/STTR PHS 2005-2 Grants Centers For Disease Control And Prevention (CDC) DHHS/CDC-NIOSH - National Institute for Occupational Safety and Health (NIOSH) The NIOSH plans, directs and coordinates the national program effort to develop and establish recommended occupational safety and health standards and to conduct research, training, and related activities t....

[\(SBIR/STTR\) HHS/CDC-NIOSH - Intervention Effectiveness Research](#)

Intervention Effectiveness Research SBIR/STTR PHS 2005-2 Grants Centers For Disease Control And Prevention (CDC) DHHS/CDC-NIOSH - National Institute for Occupational Safety and Health (NIOSH) The goal of intervention research is to develop practical strategies and techniques that effectively reduce or prevent workplace injuries and illnesses....

[\(SBIR/STTR\) HHS/CDC-NIOSH - Control Technology and Personal Protective Equipment](#)

Control Technology and Personal Protective Equipment SBIR/STTR PHS 2005-2 Grants Centers For Disease Control And Prevention (CDC) DHHS/CDC-NIOSH - National Institute for Occupational Safety and Health (NIOSH) Engineering controls, administrative policies, and personal protective equipment are needed to manage exposures to occupational hazards. Engineering controls include substitution of a safe material for a hazardou....

FDA/Center for Diseases and Radiological Health (Medical Devices)

[\(SBIR/STTR\) HHS/FDA - Center for Devices and Radiological Health \(CDRH\)](#)

Center for Devices and Radiological Health (CDRH) SBIR/STTR PHS 2005-2 Grants Food And Drug Administration (FDA) DHHS/FDA - CDRH develops FDA policy and solves problems related to public health and safety of medical devices and radiation-emitting electronic products. It evaluates applications for premarket approval of medical devices, approves products development protocols and exemption requests fo....

DOD

(STTR) Army - In-Building Acoustic Signature Identification

In-Building Acoustic Signature Identification Army STTR FY2005 - Topic A05-T025 Opens: March 15, 2005 - Closes: April 15, 2005 A05-T025 TITLE: In-Building Acoustic Signature Identification TECHNOLOGY AREAS: Information Systems, Sensors OBJECTIVE: Develop an acoustic signal analysis capability able to discern the operation and hence presence of various mechanical and electrical sub-systems within a building and give some information as to their location....

(STTR) Air Force - Software for the Design and Certification of Unitized Airframe Components

Software for the Design and Certification of Unitized Airframe Components Air Force STTR FY2005 - Topic AF05-T015 Opens: March 15, 2005 - Closes: April 15, 2005 AF05-T015 TITLE: Software for the Design and Certification of Unitized Airframe Components TECHNOLOGY AREAS: Materials/Processes OBJECTIVE: Development of cost-effective methods for the design and analysis of unitized airframe components....

(STTR) Air Force - Nonlinear Enhancement of Visual Target Detection

Nonlinear Enhancement of Visual Target Detection Air Force STTR FY2005 - Topic AF05-T021 Opens: March 15, 2005 - Closes: April 15, 2005 AF05-T021 TITLE: Nonlinear Enhancement of Visual Target Detection TECHNOLOGY AREAS: Information Systems OBJECTIVE: Develop a technique to enhance target detectability in visual images. DESCRIPTION: In both military and civilian applications, the usefulness of sensing and surveillance technology often depends upon the quality of visual images available for human scanning and interpretation....

(STTR) MDA - Liquid/Vapor Phase Separation Technology for Airborne- and Space-Based Thermal Management Application

Liquid/Vapor Phase Separation Technology for Airborne- and Space-Based Thermal Management Application MDA STTR FY2005 - Topic MDA05-T004 Opens: March 15, 2005 - Closes: April 15, 2005 MDA05-T004 TITLE: Liquid/Vapor Phase Separation Technology for Airborne- and Space-Based Thermal Management Application TECHNOLOGY AREAS: Materials/Processes, Space Platform....

(STTR) Navy - Hybrid Propulsion Systems for Undersea Weapons

Hybrid Propulsion Systems for Undersea Weapons Navy STTR FY2005 - Topic N05-T024 Opens: March 15, 2005 - Closes: April 15, 2005 N05-T024 TITLE: Hybrid Propulsion Systems for Undersea Weapons TECHNOLOGY AREAS: Ground/Sea Vehicles, Weapons OBJECTIVE: Develop innovative hybrid (thermal and electrical) propulsion system technology for undersea weapons....

(SBIR) DHS-HSARPA - LOW COST UNDERWATER THREAT DETECTION SYSTEM TECHNOLOGY AREAS: Critical Infrastructure Protection, Borders and Transportation Security, Maritime

LOW COST UNDERWATER THREAT DETECTION SYSTEM TECHNOLOGY AREAS: Critical Infrastructure Protection, Borders and Transportation Security, Maritime HSARPA SBIR FY-05.1 - Topic H-SB05.1-004 Homeland Security Advanced Research Projects Agency (HSARPA) Opens: January 20, 2005 - Closes: February 22, 2005 4:00pm EST SBIR TOPIC NUMBER: H-SB05.1-004 TITLE: LOW COST UNDERWATER THREAT DETECTION SYSTEM TECHNOLOGY AREAS: Critical Infrastructure Protection, Borders and Transportation Security, Maritime....

(STTR) Air Force - Speech Synthesis for Distance Cueing in Audio Displays

Speech Synthesis for Distance Cueing in Audio Displays Air Force STTR FY2005 - Topic AF05-T002 Opens: March 15, 2005 - Closes: April 15, 2005 AF05-T002 TITLE: Speech Synthesis for Distance Cueing in Audio Displays TECHNOLOGY AREAS: Human Systems OBJECTIVE: Develop a voice synthesis system capable of adding robust, intuitive auditory distance cues to an arbitrary input speech signal....

(STTR) Air Force - High Current Capacity Superconducting Wire for Compact Power Systems

High Current Capacity Superconducting Wire for Compact Power Systems Air Force STTR

FY2005 - Topic AF05-T009 Opens: March 15, 2005 - Closes: April 15, 2005 AF05-T009 TITLE: High Current Capacity Superconducting Wire for Compact Power Systems TECHNOLOGY AREAS: Ground/Sea Vehicles, Materials/Processes OBJECTIVE: Develop high current capability for the high temperature superconductors (HTS) via thick HTS layers, flux pinning or stabilizing substrates to improve effective engineering current densities (JE)....

[\(STTR\) Army - Distributed Heterogenous Large Data Visualization of Physics Based Simulations](#)

Distributed Heterogenous Large Data Visualization of Physics Based Simulations Army STTR FY2005 - Topic A05-T002 Opens: March 15, 2005 - Closes: April 15, 2005 A05-T002 TITLE: Distributed Heterogenous Large Data Visualization of Physics Based Simulations TECHNOLOGY AREAS: Chemical/Bio Defense, Information Systems OBJECTIVE: Develop a system that is capable of generating interactive visualizations of enormous datasets that result from physics based simulations on US DoD High Performance Computing facilities....

[\(STTR\) Army - Physical Model for Gelled Propellants](#)

Physical Model for Gelled Propellants Army STTR FY2005 - Topic A05-T003 Opens: March 15, 2005 - Closes: April 15, 2005 A05-T003 TITLE: Physical Model for Gelled Propellants TECHNOLOGY AREAS: OBJECTIVE: Develop a model to describe the physical properties of gelled propellants. DESCRIPTION: Gelled propellants have significant safety and handling advantages over liquid propellants due to their physical properties while maintaining the ability of liquids to throttle and turn on and off....

[\(STTR\) Army - Novel GaN-Based HFET Sources and Amplifiers for Millimeter-Wave Applications](#)

Novel GaN-Based HFET Sources and Amplifiers for Millimeter-Wave Applications Army STTR FY2005 - Topic A05-T008 Opens: March 15, 2005 - Closes: April 15, 2005 A05-T008 TITLE: Novel GaN-Based HFET Sources and Amplifiers for Millimeter-Wave Applications TECHNOLOGY AREAS: Electronics OBJECTIVE: To design, build and demonstrate a new class of GaN-based Heterojunction Field-Effect Transistor (HFETs) sources and amplifiers where a newly discovered impact mode of operation is utilized to realize enhanced gain and RF output power at millimeter-wave (mm-wave) frequencies and beyond....

[\(STTR\) Army - Fabrication of 3D Photonic Crystals in the RF Range for Man-Portable Antenna Applications](#)

Fabrication of 3D Photonic Crystals in the RF Range for Man-Portable Antenna Applications Army STTR FY2005 - Topic A05-T017 Opens: March 15, 2005 - Closes: April 15, 2005 A05-T017 TITLE: Fabrication of 3D Photonic Crystals in the RF Range for Man-Portable Antenna Applications TECHNOLOGY AREAS: Materials/Processes OBJECTIVE: The objective of this program is to design and fabricate a metallodielectric resonant structure, commonly known as a photonic band gap (PBG) material, that is active in the RF range (MHz to GHz) for helmet-mounted antenna applications....

[\(STTR\) Army - Reducing Complex Physico-Chemical Model Systems](#)

Reducing Complex Physico-Chemical Model Systems Army STTR FY2005 - Topic A05-T018 Opens: March 15, 2005 - Closes: April 15, 2005 A05-T018 TITLE: Reducing Complex Physico-Chemical Model Systems TECHNOLOGY AREAS: Information Systems, Weapons OBJECTIVE: Create desk-top computer-based programs and documentation to enable analysis of complex science and engineering models and experimental data sets using recently developed functional Sensitivity Analysis (SA) and High Dimensional Model Representations (HDMR)....

NSF Electronics and Security Technologies

[\(SBIR/STTR\) NSF- \(EL\) A. Sensors](#)

A. Sensors NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation The convergence of the Internet, communications, and information technologies with techniques for miniaturization has placed sensor technology at the threshold of a period of major growth....

(SBIR/STTR) NSF- (EL) B. Wireless Technologies

B. Wireless Technologies NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals that involve next generation wireless communication technology requiring systems that are fully integrated (between terrestrial - wired & wireless and satellite), with high data rates, low cost, and that support a wide variety of applications and services, while maintaining full mobility, minimum latency, and long battery life, are sought....

(SBIR/STTR) NSF- (EL) C. Integrated Circuit (IC) Design

C. Integrated Circuit (IC) Design NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation The continuing growth of electronic technologies beyond the fundamental physical limits in scaling electronic devices to smaller and smaller sizes has sparked unprecedented interests in atomic-scale design in gigascale electronics, integrated circuits and architectures....

(SBIR/STTR) NSF- (EL) D. Photonics, Opto/Magneto-electronic Devices and Systems

D. Photonics, Opto/Magneto-electronic Devices and Systems NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals are solicited on advanced optical components and instruments utilizing lasers and other light sources, fiber optics, fiber sensors with cheap disposable plastic fibers, electro-optical and magneto-optical devices, and semiconductor photosensitive detectors....

(SBIR/STTR) NSF- (EL) E. Micro-and Nano-Electro-Mechanical Systems (MEMS and NEMS)

E. Micro-and Nano-Electro-Mechanical Systems (MEMS and NEMS) NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals are solicited on MEMS/NEMS and their applications to power sources accelerometers, shock resistant devices, wide temperature range devices, sensors actuators, and communication devices....

(SBIR/STTR) NSF- (EL) F. Energy & Power Management

F. Energy & Power Management NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Ongoing challenges in national and global energy needs are placing increasing demands for innovative alternative energy strategies that require a broad vision in a variety of areas including distributed controls, adaptive dynamic power flow for managing intelligent power grids of the future and the associated need for efficient regulatory reforms for the power market ranging from the device to the system level....

(SBIR/STTR) NSF- (EL) G. Geoscience Instrumentation

G. Geoscience Instrumentation NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation NSF/SBIR seeks proposals to design, develop, and prototype innovative instruments for the scientific understanding of the integrated Earth systems, and that lead to an improved understanding of the factors that define and influence the Earth's environment and planetary processes....

(SBIR/STTR) NSF- (EL) H. Astronomical Instrumentation

H. Astronomical Instrumentation NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals that lead to new instruments and devices are solicited for astronomical observations in the radio, sub-millimeter, infrared, and optical wavelengths....

(SBIR/STTR) NSF- (EL) I. Robotics

I. Robotics NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals involving robotics and intelligent machines having human-like behavior are sought in the following areas: I.1 Applications to manufacturing; development of next-generation intelligent machines I....

(SBIR/STTR) NSF- (EL) J. Semiconductor & Other Materials

J. Semiconductor & Other Materials NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals are solicited for advanced materials with potential for improved utility in micro- and nano- electronic devices, and in micro- and nano-magnetics....

(SBIR/STTR) NSF- (EL) K. Nanoelectronics, Nanophotonics and Nanomagnetics

K. Nanoelectronics, Nanophotonics and Nanomagnetics NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation It is anticipated that nanotechnology through development of new classes of devices will provide significant performance increases in speed, power consumption, sensitivity and device density....

(SBIR/STTR) NSF- (EL) L. Organic Electronics

L. Organic Electronics NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Organic functional materials have the potential to be key enablers for novel photonic, electronic and optoelectronic device applications. Proposals are encouraged in organic electronics including: L....

(SBIR/STTR) NSF- (EL) M. Semiconductor Manufacturing

M. Semiconductor Manufacturing NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals are sought in areas that relate to electronics manufacturing....

(SBIR/STTR) NSF- (EL) N. Nano - electronics Manufacturing

N. Nano-electronics Manufacturing NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals are solicited in techniques of nanoelectronics manufacturing including various forms. N.1 Nanolithography and nanoimprinting N.2 Material growth and deposition techniques

(SBIR/STTR) NSF- (EL) O. Micro-electronics Packaging & Systems Integration

O. Micro-electronics Packaging & Systems Integration NSF SBIR/STTR - Electronics (EL) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Proposals are solicited on more efficient means of integrating semiconductor components and devices into systems....

(SBIR/STTR) NSF- (ST) A. Prevention (Security Technologies)

A. Prevention NSF SBIR/STTR - Security Technologies (ST) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Tools and systems that may be used to mitigate current and future vulnerabilities will be supported....

(SBIR/STTR) NSF- (ST) B. Detection (Security Technologies)

B. Detection NSF SBIR/STTR - Security Technologies (ST) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Tools and systems that may be used to monitor the performance of preventative measures and detect or sense breaches in systems will be supported....

(SBIR/STTR) NSF- (ST) C. Treatment (Security Technologies)

C. Treatment NSF SBIR/STTR - Security Technologies (ST) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation The ability to quickly disseminate information and treatments over wide geographic regions can contain the severity of an event....

(SBIR/STTR) NSF- (ST) D. Remediation (Security Technologies)

D. Remediation NSF SBIR/STTR - Security Technologies (ST) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Tools and techniques that enable remediation of critical resources in response to an event are sought under the following subtopics: Systems and approaches for chemical (including industrial), biological or radiological event remediation....

(SBIR/STTR) NSF- (ST)E. Attribution (Security Technologies)

E. Attribution NSF SBIR/STTR - Security Technologies (ST) Opens: May 8, 2005 - Closes: June 8, 2005 Do not submit proposal until NSF opens the solicitation Tools and systems that can be used for forensic analysis after the fact are sought under the following subtopics: Taggants and anti-counterfeit/product authentication systems with unique spectral and/or other signature....

OCCN/LAACN Breakfast Meeting

New Place and Time

Saturday April 16th

9:00-10:30 AM

at

El Torito Mexican Restaurant

15042 Goldenwest Street

Westminster, CA

Everyone interested in Consulting is invited to attend our monthly get together to discuss the consulting opportunities and activities in the LA and OC technical community. OCCN and LAACN or continuing their early breakfast meeting format for their monthly meeting to allow more personal interaction among the members and make more of Saturday available for personal activities. These monthly meetings—3rd Saturday of each month—will be augmented with special activities, such as the upcoming SBIR meeting this May which will focus on providing information to those interested in pursuing government contracts through the Small Business Research Innovations program.

The Agenda for the meeting –eat while we talk—will include:

National Activities Update: Bob Gauger

Local Activities Update Pete Schultz

SBIR Informational Meeting—May 23rd: Ron Oglevie

Discussion of Consulting Opportunities

The meeting will be held at El Torito Mexican Restaurant where you can enjoy their breakfast buffet while we go over the agenda and also have the opportunity to network with fellow consultants. El Torito is just West off 405 Freeway at Bolsa and Goldenwest in Westminster.

Wes Masenten
OCCN, Chair

OCCN/LAACN Breakfast Meeting

New Place and Time

Saturday March 19th

9:00-10:30 AM

at

El Torito Mexican Restaurant

15042 Goldenwest Street

Westminster, CA

Everyone interested in Consulting is invited to attend our monthly get together to discuss the consulting opportunities and activities in the LA and OC technical community. OCCN and LAACN or continuing their early breakfast meeting format for their monthly meeting to allow more personal interaction among the members and make more of Saturday available for personal activities. These monthly meetings—3rd Saturday of each month—will be augmented with special activities, such as the upcoming SBIR meeting this May which will focus on providing information to those interested in pursuing government contracts through the Small Business Research Innovations program.

The Agenda for the meeting –eat while we talk—will include:

National Activities Update:

Bob Gauger

Local Activities Update

Wes Masenten

SBIR Informational Meeting—May 23rd:

Ron Oglevie

Discussion of Consulting Opportunities

The meeting will be held at El Torito Mexican Restaurant where you can enjoy their breakfast buffet while we go over the agenda and also have the opportunity to network with fellow consultants. El Torito is just West off 405 Freeway at Bolsa and Goldenwest in Westminster.

Wes Masenten
OCCN, Chair

OCCN/LAACN Breakfast Meeting

Saturday February 19th

8:00-9:30 AM

at

Hof's Hut Irvine

"Garden Room"

18850 Douglas

Irvine, CA

Everyone interested in Consulting is invited to attend our monthly get together to discuss the consulting opportunities and activities in the LA and OC technical community. OCCN and LAACN or continuing their early breakfast meeting format for their monthly meeting to allow more personal interaction among the members and make more of Saturday available for personal activities. These monthly meetings—3rd Saturday of each month—will be augmented with special activities, such as the upcoming SBIR Meeting this Spring which will focus on providing information to those interested in pursuing government contracts through the Small Business Research Innovations program.

The Agenda for the meeting –eat while we talk– will include:

OC Section Activities Update:

Wes Masenten

SBIR Informational Meeting—May 23rd:

Ron Oglevie

Discussion of Consulting Opportunities

The meeting will be held at Hof's Hut in the *Garden Room* where you can enjoy a good breakfast while we go over the agenda and also have the opportunity to network with fellow consultants. Hof's Hut is across from the John Wayne Airport: one block east of MacArthur Blvd. and one block North of Campus, i.e. approximately one block NE of the corner of MacArthur Blvd. and Campus. Looking forward to seeing everyone there.

Wes Masenten
OCCN, Chair

OCCN/LACCN Breakfast Meeting

Saturday January 15th

8:00-9:30 AM

at

Hof's Hut Irvine

"Garden Room"

18850 Douglas

Irvine, CA

Everyone interested in Consulting is invited to attend our monthly get together to discuss the consulting opportunities and activities in the LA and OC technical community. OCCN and LACCN are continuing their early breakfast meeting format for their monthly meeting to allow more personal interaction among the members and make more of Saturday available for personal activities. These monthly meetings—3rd Saturday of each month—will be augmented with special activities, such as the WESCON Consultants Workshop, and upcoming SBIR Meeting.

The Agenda for the meeting —eat while we talk—will include:

Update on OCCN/Section Activities:	Wes Masenten
Update on National Activities & Holiday Party:	Bob Gauger
SBIR Informational Meeting Agenda:	Ron Oglevie

The meeting will be held at Hof's Hut in the *Garden Room* where you can enjoy a good breakfast while we go over the agenda and also have the opportunity to network with fellow consultants. Hof's Hut is across from the John Wayne Airport: one block east of MacArthur Blvd. and one block North of Campus, i.e. approximately one block NE of the corner of MacArthur Blvd. and Campus. Looking forward to seeing everyone there.

Wes Masenten
OCCN, Chair

