Committee on Science, Space, and Technology

U.S. House of Representatives

Witness Disclosure Requirement - "Truth in Testimony"
Required by House Rule XI, Clause 2(g)(5)

1. **Your Name:** John C. Hemminger

	Yes	No
2. **Are you testifying on behalf of the Federal, or a State or local government entity?**	X	
3. **Are you testifying on behalf of an entity that is not a government entity?**	X	

4. **Other than yourself, please list which entity or entities you are representing:**
a) DOE, Office of Science, Basic Energy Sciences Advisory Com.
b) University of California, Irvine

5. **Please list any Federal grants or contracts (including subgrants or subcontracts) that <u>you or the entity you represent have received</u> on or after October 1, 2010:**
See attached sheet

6. **If your answer to the question in item 3 in this form is "yes," please describe your position or representational capacity with the entity(ies) you are representing:**
Professor of Chemistry
and
Vice Chancellor for Research

	Yes	No
7. **If your answer to the question in item 3 is "yes," do any of the entities disclosed in item 4 have parent organizations, subsidiaries, or partnerships that you are not representing in your testimony?**		X

8. **If the answer to the question in item 3 is "yes," please list any Federal grants or contracts (including subgrants or subcontracts) that were received by the entities listed under the question in item 4 on or after October 1, 2010, that exceed 10 percent of the revenue of the entities in the year received, including the source and amount of each grant or contract to be listed:**
None

I certify that the above information is true and correct.

Signature: John C Hemminger **Date:** October 26, 2013

Disclosure of Federal Funding Related to the Testimony of

Dr. John C. Hemminger,
Vice Chancellor for Research, University of California, Irvine

Hearing of the Subcommittee on Energy of the Committee on Science, Space and Technology

Entitled

Providing the Tools for Scientific Discovery and Basic Energy Research:
The Department of Energy Science Mission

October 30, 2013

DOE Awards Received between January 1, 2010 and October 22, 2013 (based on Award Finalized Date)
Total Funds By Award Received between January 2, 2010 and October 22, 2013

10/22/2013

54 records

Award #	PI	Project Title	Awarded Total Cost	Finalized Date
DE-EE0005324	LAW, MATTHEW	Pyrite Iron Sulfide Solar Cells Made from Solution	$1,282,130.00	2/22/12
DE-FC02-06ER54860	LIN, ZHIHONG	Center for Plasma Edge Simulation	$186,000.00	4/9/10
DE-FC02-08ER54957	LIN, ZHIHONG	Gyrokinetic Particle Simulation of Turbulent Transport in Burning Plasmas	$189,860.00	6/30/10
DE-FC02-08ER54976	LIN, ZHIHONG	Gyrokinetic Simulation of Energetic Particle Turbulence and Transport	$760,000.00	5/21/10
DE-FE0003088	SAMUELSEN, GARY	International Colloquium on Environmentally Preferred Advanced Generation (ICEPAG 2010)	$25,000.00	3/9/10
DE-FE0004727	MUMM, DANIEL	Mechanisms Underpinning Degradation of Protective Oxides and Thermal Barrier Coating Systems in HHC-Fueled Turbines	$500,000.00	8/31/10
DE-FE0005376	SAMUELSEN, GARY	Design Concepts for Co-Production of Power, Fuels, and Chemicals	$446,895.00	4/28/11
DE-FE0006678	SAMUELSEN, GARY	International Colloquium on Environmentally Preferred Advanced Generation (ICEPAG 2011)	$25,000.00	6/6/11
DE-FE0007045	MCDONELL, VINCENT	Development of Criteria for Flameholding Tendencies Within Premixer Passages for High Hydrogen Content Fuels	$499,999.00	9/7/11
DE-FE0008050	SAMUELSEN, GARY	International Colloquium on Environmentally Preferred Advanced Generation (ICEPAG 2012)	$25,000.00	10/3/11
DE-FE0009669	BROUWER, JACOB	Dynamic Simulation of Integrated High Temperature Fuel Cell Gas Turbine Hybrid Systems in SOFCs	$250,321.00	2/16/11
DE-FE0011929	MUMM, DANIEL	Abradable Sealing Materials for Emerging IGCC-Based Turbine Systems	$250,000.00	8/21/13
DE-FE0011948	MCDONELL, VINCENT	Development of Criteria for Flashback Propensity in Jet Flames for High Hydrogen Content and Natural Gas Type Fuels	$499,999.00	8/28/13
DE-FG02-02ER54681	HEIDBRINK, WILLIAM	Beam Ion Studies in NSTX	$503,000.00	7/2/10
DE-FG02-03ER54720	HEIDBRINK, WILLIAM	Fast-Ion Studies in the Large Plasma Device	$448,000.00	2/16/11
DE-FG02-04ER15571	MUKAMEL, SHAUL	Theory and Simulations of Nonlinear X-Ray Spectroscopy of Molecules	$666,558.00	4/6/10
DE-FG02-04ER15595	HO, WILSON	Spectroscopic Imaging Toward Space-Time Limit	$525,000.00	6/30/10
DE-FG02-04ER46107	YU, CLARE	Glasses, Noise and Phase Transitions	$85,000.00	6/2/10
DE-FG02-04ER46162	GUAN, ZHIBIN	Biomimetic 3d Network Polymers Containing Reversibly Unfoldable Modules (RUM's) for Strong and Tough Materials	$616,000.00	4/9/10
DE-FG02-04ER46174	CHERNYSHEV, ALEXANDER	Excitation and Thermal Transport in Quantum Magnets	$519,000.00	1/8/10
DE-FG02-04ER54736	CHEN, LIU	Theoretical Studies of Drift-Alfven and Energetic-Particle Physics	$280,000.00	4/9/10
DE-FG02-05ER41386	VAGINS, MARK	Large Scale Testing and Development of Gadolinium Trichloride for Use in Neutron Detection in Large Water	-$3,967.00	2/19/10
DE-FG02-05ER46237	WU, RUQIAN	First Principles Exploration for the Origin of Ferromagnetism in Diluted Magnetic Semiconductors	$380,000.00	6/30/10
DE-FG02-05ER64000	FINLAYSON-PITTS, BARBARA	Formation of Secondary Organic Aerosols (Soa) Via Nitrate Ion Photochemistry in & on Particles	$236,998.00	4/6/10
DE-FG02-05ER64021	GOULDEN, MICHAEL	Physiological, Demographic, Competitive and Biogeochemical Controls on the Response of California's Ecosystems to Environmental Change	$1,144,684.00	7/7/10

DE-FG02-06ER15826	HO, WILSON	Single-Molecule Interfacial Electron Transfer	$600,000.00	8/12/10
DE-FG02-06ER54867	HEIDBRINK, WILLIAM	Fast-ion D-alpha Diagnostic for NSTX (DE-FOA-0000576) (National Spherical Torus Experiment: Diagnostic Measurements of Spherical Torus Plasmas)	$514,000.00	6/30/10
DE-FG02-07ER54916	LIN, ZHIHONG	Gyrokinetic Particle Simulation of Multi-Scale Plasma Turbulence	$382,000.00	9/9/10
DE-FG02-07ER64429	SMYTH, PATRICK	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical Models	$92,730.00	1/8/10
DE-FG02-08ER15994	BLUM, SUZANNE	Single-Molecule Fluorescence Imaging for Studying Organic, Organometallic, and Inorganic Reaction Mechanisms	$540,000.00	6/30/10
DE-FG02-08ER46496	BURKE, KIERON	Density Functional Calculations of Transport Through Single Molecules	$505,267.00	6/30/10
DE-FG02-09ER16003	DETWILER, RUSSELL	Multiphase Fluid Flow in Deformable Variable-Aperture Fractures	$303,060.00	6/30/10
DE-FG02-84ER45083	WHITE, STEVEN	Electron Probes of Nanoscale and Subnanoscale Structures and Their Dynamics	$415,000.00	5/21/10
DE-FG02-86ER13514	EVANS, WILLIAM	Advancing Chemistry with the Lanthanide and Actinide Elements	$375,000.00	7/20/10
DE-FG02-86ER13525	LANYI, JANOS	Membrane Bioenergetics of Salt Tolerant Organisms	$754,999.00	8/2/10
DE-FG02-91ER40679	SOBEL, HENRY	A Research Program in Neutrino Physics, Cosmic Rays and Elementary Particles	$9,092,431.00	5/19/10
DE-FG02-96ER45576	HEMMINGER, JOHN	Optical Spectroscopy and Scanning Tunneling Microscopy Studies of Molecular Adsorbates and anisotropic Ultrathin Films	$647,473.00	6/30/10
DE-SC0001047	LIMOLI, CHARLES	Neurodegeneration And Adaptation in Response To Low-Dose Photon Irradiation	$1,057,022.00	5/20/10
DE-SC0002444	LIN, ZHIHONG	Gyrokinetic Particle Simulation of Compressible Electromagnetic Turbulence in High-Beta Plasmas	$180,000.00	8/13/10
DE-SC0003904	LAW, MATTHEW	Evaluating the Oxidative, Photothemal and Electrical Stability of Colloidal Nanocrystal Solids	$600,000.00	5/3/10
DE-SC0003905	POTMA, ERIC	Ultrafast electron transport across nanogaps in nanowire circuits	$648,859.00	5/3/10
DE-SC0004731	ALLISON, STEVEN	Can Microbial Functional Traits Predict the Response and Resilience of Decomposition to Global Change?	$2,383,120.00	8/5/10
DE-SC0004739	EVANS, WILLIAM	Fundamental Chemistry of Actinide Complexes Containing An -N, An-O, and An-S Bonds	$805,000.00	7/20/10
DE-SC0006606	FINLAYSON-PITTS, BARBARA	Laboratory Studies of the Role of Amines in Particle Formation, Growth and Climate	$600,000.00	9/27/11
DE-SC0007021	PRATHER, MICHAEL	Interactive Photochemistry in Earth System Models to Assess Uncertainty in Ozone and Greenhouse Gases	$616,828.00	9/23/11
DE-SC0007206	PRIMEAU, FRANCOIS	Collaborative Project: Improving CESM Efficiency to Study Variable C:N:P Stoichiometry in the Oceans	$694,840.00	10/3/11
DE-SC0008694	FURCHE, FILIPP	Non-Adiabatic Molecular Dynamics Methods for Materials Discovery	$369,324.00	8/28/12
DE-SC0008696	WHITE, STEVEN	Strong Correlation DMRG and DFT	$557,266.00	8/23/12
DE-SC0009879	SOBEL, HENRY	Super-Kamiokande Operations	$500,000.00	5/8/13
DE-SC0009920	SOBEL, HENRY	A Research Program In Elementary Particle Physics	$1,792,000.00	6/10/13
DE-SC0010416	HOLOD, IHOR	Gyrokinetic Particle Simulation of Turbulent transport In Plasma Edge Pedestal	$71,999.00	7/30/13
DE-SC0010417	CHEN, LIU	Theoretical Studies Of Alfven Waves And Energetic Particle Physics In Fusion Plasmas	$50,000.00	7/23/13
ORAU-54583	BATCHELDER, WILLIAM	Delineating Cultural Models	$150,000.00	8/17/12
SC0006619	SMYTH, PATRICK	Collaborative Research, Type 1: Decadal Prediction and Stochastic Simulation of Hydroclimate Over Monsoonal Asia	$120,000.00	10/25/11
			$35,758,695.00	