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CURRENT & PENDING SUPPORT (October 2008):

- **DOD - Air Force Office of Scientific Research** (Multi-University Research Initiative), 05/1/06-04/30/11
Title: “*Fundamentals of Enzymatic Fuel Cells*” (Plamen Atanassov, PI) Total Amount: \$3,500,000 UNM: 745,000
This large proposal brings together faculty from UNM, Columbia University, Michigan State University, University of St. Louis, University of Hawaii and Northeastern University (Boston). UNM is the lead institution and Plamen Atanassov is the main PI. UNM part of the program will be housed with the new Center for Biomedical Engineering.
- **Toyota Motor Company.** (CCMC Membership for Industry-Directed Research) 04/1/05-03/31/09
Title: “*Development of Model Biological Fuel Cells*” Amount: \$200,000
This is a company-directed Center project on the bio-fuel cell development focusing on the cathode design.
- **NSF – IGERT** (Division of Graduate Education) in collaboration with **NIH-NCI** 09/15/05-09/14/10
Title: “*Integrative Nanoscience and Microsystem*” (A. Datye, PI) Amount: \$3,000,000
Research fellowships program in support of the NSMS graduate program at UNM. P. Atanassov is a Co-PI responsible for the bio-nano interfaces research area and graduate recruitment.
- **DOE – Division for Hydrogen and Fuel Cell Technology** (Laboratory Research Initiative) 10/1/06-09/30/10
Title: “*New Electrocatalysts for Polymer Electrolyte Fuel Cells*” (Piotr Zelenay, LANL, PI) Amount: \$400,000
This Subcontract is a part of a LANL-lead collaborative program at the Institute for Hydrogen and Fuel Cell Technology. It includes Brookhaven Natnl. Lab, U. of Illinois, U. of California and UNM. P. Atanassov is the PI of the UNM sub-contract.
- **New Mexico Institute of Mining and Technology** (NM State Hydrogen Initiative) 10/1/06-09/30/10
Title: “*Equipment to Study Electrocatalysts for Fuel Cells*” (Don Weinkauff, NMIMT, PI) Amount: \$120,000
This is the State of New Mexico cost share account that is set in support of the DOE-LANL sub-contract.
- **UNM Science Technology Corporation** (Technology Gap Funding Grant) 10/01/07-09/31/08
Title: “*Multiplex Immunosensors for Rapid Diagnostics of Infectious Disease*” Amount: \$25,000
Program to develop UNM technology towards marketing expectations and a potential licensing agreement.
- **NSF – Industry/University Collaborative Research Centers** (Centers Tie Program) 10/1/07-09/30/10
Title: “*Thermal Stability in Electrocatalysts for Fuel Cells*” (J. St-Pierre, SCU, A. Datye, UNM, PIs) Amount: \$100,000
This is a UNM-USC collaborative project to bridge the research in two NSF IUCRCs.
- **NSF – Industry/University Collaborative Research Centers** (change of PI to P. Atanassov) 10/11/07-08/31/09
Title: “*Ceramics and Composite Materials Center*” (UNM component of the award) Amount: \$200,000
This is a UNM-Rutgers-Penn State research center. P. Atanassov became a PI of the UNM site to lead the renewal effort.
- **Sharp Laboratories of America** (CCMC Membership for Industry-Directed Research) 04/1/08-03/31/09
Title: “*Diagnostics and Electrochemical Characterization of Immunosensing Devices*” Amount: \$35,000
This is a company-directed Center project on the immunosensor development focusing on the label-free assay.
- **Sandia National Laboratories** (NSA Sub-contract) 04/1/08-09/30/08
Title: “*Materials for Printable Cathodes*” Amount: \$50,000
This is a subcontract to the Sandia NL in the area of printable battery technology.

- **Superprotonic Inc.** (Industry-Sponsored Research) 04/1/08-09/30/08
Title: "*Processing of Superprotonic Materials*"
Amount: \$40,000
This is a company-directed exploratory research project in applications of spray pyrolysis technology.
- **Institute for Advanced Studies (NM Consortium)** 07/1/08-06/30/09
Title: "*Center for Emerging Energy Technologies*" (Plamen Atanassov, PI)
Amount: \$20,000
This is a request for structural and operational support for the CEET initiative at SOE.
- **DOE – EPSCoR State of New Mexico Implementation Award** 10/1/08-09/30/11
Title: "*Materials for Energy Conversion and Storage*" (Plamen Atanassov, PI)
Amount: \$3,525,000
State of New Mexico DOE collaborative research proposal with participation from NMT, NMSU and ENMU
- **Akermin** (CCMC Membership for Industry-Directed Research) 04/1/08-03/31/09
Title: "*Development of Anode Catalyst Inks for Biofuel Cells*"
Amount: \$20,000
This is a company-directed Center project on the development of biofuel cell technology.
- **Daihatsu Corp.** 10/1/08-09/30/09
Title: "*Materials for Hydrazine Fuel Cells*" (Plamen Atanassov, PI)
Amount: \$150,000
This is a company-directed research project on the development of catalyst and membrane technology.

PENDING PROPOSALS:

- **DOD – Defense University Research Instrumentation Program (DURIP)** 01/10/09-03/31/10
Title: "*Surface Plasmon Resonance Facility*" (Gabriel Lopez, UNM, PI) Amount: \$230,000
This project requests two SPR instruments with a state-of-the-art metal evaporation tool.
- **NIH - National Institute of Biomedical Imaging and Bioengineering (U01)** 05/1/08-04/30/13
Title: "*Biosensors for Point of Care Diagnostics*"
Amount: \$2,500,000
U01 program from UNM SOE, UNM SOM and TriCore Labs to develop and test Point of Care Technologies.
- **DOD - Air Force Research Laboratory (Major Thrust Set Aside Program for Materials Research)** 09/15/08-09/14/11
Title: "*Bio/Nano Architectures for Enzyme Catalyzed Energy Conversion*" (Plamen Atanassov, PI) Amount: \$200,000
This project is on the area of bio-nano interfaces study with electrochemistry and SPR.
- **DOD - Air Force Research Laboratory (Laboratory Research Initiation Request)** 10/01/08-09/30/12
Title: "*Autonomous & Sustainable Biorenewable Energy & Power*" (Plamen Atanassov, UNM PI) Amount: \$380,000
This is the UNM component of a program between WPAFB (R. Pachter) and TAFB (G. Johnson) sites of AFRL.
- **DOE – Division for Hydrogen and Fuel Cell Technology (University Research Initiative)** 03/1/09-02/28/13
Title: "*Novel Non Pt Group Metal Electrocatalysts for PEMFC*" (S. Mukerjee, NEU, PI) UNM Amount: \$600,000
This Subcontract is a part of a NEU-lead collaborative program with P. Atanassov as the PI of the UNM sub-contract.
- **DOE – Division for Hydrogen and Fuel Cell Technology (Business Research Initiative)** 03/1/09-02/28/13
Title: "*Development of Micro-structural Mitigation Strategies for PEMFC*" (S. Wessel, BPS, PI) UNM Amount: \$400,000
This Subcontract is a part of a Ballard-lead collaborative program with P. Atanassov as the PI of the UNM sub-contract.
- **DOE – Division for Hydrogen and Fuel Cell Technology (Laboratory Research Initiative)** 03/1/09-02/28/11
Title: "*Alkaline Exchange Membrane Fuel Cells for Portable Power*" (B. Pivovar, NREL, PI) UNM Amount: \$200,000
This Subcontract is a part of a NREL-lead collaborative program with P. Atanassov as the PI of the UNM sub-contract.
- **DOE – Division for Hydrogen and Fuel Cell Technology (University Research Initiative)** 03/1/09-02/28/13
Title: "*Glycerol Fuel Cell for Portable Power*" (S. Minter, St Louis University, PI) UNM Amount: \$400,000
This Subcontract is a part of a SLU-lead collaborative program with P. Atanassov as the PI of the UNM sub-contract.