**Department of Energy**
Office of Scientific and Technical Information
Post Office Box 62
Oak Ridge, Tennessee 37831

August 10, 2016

Re: OSTI-2016-01064-F

Dear Mr. Ravnitzky:
This is in final response to the request for information you sent to the Department of Energy (DOE), Office of Scientific and Technical Information (OSTI) under the Freedom of Information Act (FOIA), 5 U.S.C. 552 on June 22, 2016.

You requested a "copy of records, electronic, or otherwise, of each letter TO and FROM universities, companies, and organizations, from the OSTI 'cold fusion' documents collection." On July 11, 2016, you were emailed an interim response letter informing you of the need for OSTI to obtain release authorization from the Department of Energy. OSTI received notification to release the letters to you in their entirety on August 8, 2016. As a result, OSTI is releasing 72 cold fusion letters in this mailing on a CD-ROM because of the volume and file size of the PDFs.

In addition, there are approximately 13 letters that are currently being reviewed by the DOE's General Counsel Office (GC) for release or redaction. Upon receipt of guidance from GC, OSTI will release in whole or in part.

This decision, as well as the adequacy of the search, may be appealed within **90** calendar days from your receipt of this letter pursuant to 10 C.F.R. § 1004.8. Appeals should be addressed to Director, Office of Hearings and Appeals, HG-1, L'Enfant Plaza, U.S. Department of Energy, 1000 Independence Avenue, S.W., Washington, D.C. 20585-1615. The written appeal, including the envelope, must clearly indicate that a FOIA appeal is being made. You may also submit your appeal to OHA.filings@hq.doe.gov, including the phrase "Freedom of Information Appeal" in the subject line. The appeal must contain all of the elements required by 10 C.F.R. § 1004.8, including a copy of the determination letter. Thereafter, judicial review will be available to you in the Federal District Court either: 1) in the district where you reside; 2) where you have your principal place of business; 3) where DOE's records are situated; or 4) in the District of Columbia.

You may contact OSTI's FOIA Public Liaison, Charlene Luther, Office of Preservation and Technology at 865.576.1138 or by mail at the Department of Energy, Office of Scientific and Technical Information, 1 Science.gov Way, Oak Ridge, TN 37830 for any further assistance and to discuss any aspect of your request. Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer.

The contact information for OGIS is as follows: Office of Government Information Services, National Archives and Records Administration, 8601 Adelphi Road-OGIS, College Park, Maryland 20740-6001, e-mail at ogis@nara.gov; telephone at 202-741-5770; toll free at 1-877-684-6448; or facsimile at 202-741-5769.

If you have any questions about the processing of the request or about this letter, please contact Madelyn M. Wilson at

Sincerely,

Madelyn M. Wilson
FOIA Officer
DOE OSTI
1 Science.gov Way
Oak Ridge, TN 37830

THE UNIVERSITY OF UTAH

31 January 1989

**HAND CARRIED BY PRINCIPAL INVESTIGATOR**

Revised Budget
ple / AAMD ER-64

RYSZARD GAJEWSKI
U S DEPARTMENT OF ENERGY
ACQUISITION & ASSISTANCE MANAGEMENT DIVISION
OFFICE OF ENERGY RESEARCH, ER64 DOE
19901 GERMANTOWN ROAD
GERMANTOWN MD 20874

SUBJECT: Revised Budget
University of Utah PID No. 8808032

Dear Mr. Gajewski:

We are enclosing one copy of the revised budget for the project entitled "THE BEHAVIOR OF ELECTROCHEMICALLY COMPRESSED HYDROGEN AND DEUTERIUM" under the direction of Dr. B. Stanley Pons, Department of Chemistry. This document has been signed by an authorized official of the University of Utah.

This budget revision is in the amount of $216,312 for the performance period 1 October 1988 to 30 September 1989.

We appreciate your consideration of this proposal and look forward to hearing from you when your review is completed.

Very truly yours,

Richard H. Timpson
Director
Sponsored Projects

kb

Enclosure

cy: B. Stanley Pons
Dr. Hugo Rossi, Dean



**Office of Sponsored Projects**
309 Park Building
Salt Lake City, Utah 84112
(801) 581-6903
Fax Machine (801) 581-3007

## DISCLAIMER

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OMB Approval No. 0348-0006

# FEDERAL ASSISTANCE

| | | | |
|---|---|---|---|
| 2. APPLICANT'S APPLICATION IDENTIFIER | a. NUMBER | 3. STATE APPLICATION IDENTIFIER | a. NUMBER |
| | b. DATE Year month day 19 89 01 31 | NOTE: TO BE ASSIGNED BY STATE | b. DATE ASSIGNED Year month day 19 |

1. TYPE OF SUBMISSION (Mark appropriate box)
- ☐ NOTICE OF INTENT (OPTIONAL)
- ☐ PREAPPLICATION
- ☒ APPLICATION

Leave Blank

**SECTION I—APPLICANT/RECIPIENT DATA**

4. LEGAL APPLICANT/RECIPIENT
- a. Applicant Name: University of Utah
- b. Organization Unit: Stanley Pons
- c. Street/P.O. Box: Department of Chemistry
- d. City: Salt Lake City
- e. County: Salt Lake
- f. State: Utah
- g. ZIP Code: 84112
- h. Contact Person (Name & Telephone No.): Stanley Pons (801) 581-4760

5. EMPLOYER IDENTIFICATION NUMBER (EIN): 187600525A1

6. PROGRAM (From CFDA)
- a. NUMBER: 8 1 . 0 4 9
- MULTIPLE ☐
- b. TITLE: Basic Energy Sciences

7. TITLE OF APPLICANT'S PROJECT (Use section IV of this form to provide a summary description of the project.)

The Behavior of Electrochemically Compressed Hydrogen and Deuterium

8. TYPE OF APPLICANT/RECIPIENT
A—State; B—Special Purpose District; C—Business Organization; D—County; E—City; F—School District; H—Community Action Agency; I—Higher Educational Institution; J—Indian Tribe; K—Other (Specify):
Enter appropriate letter: I

9. AREA OF PROJECT IMPACT (Names of cities, counties, states, etc.): Salt Lake City

10. ESTIMATED NUMBER OF PERSONS BENEFITING: 5

11. TYPE OF ASSISTANCE
A—Basic Grant; B—Supplemental Grant; C—Loan; D—Insurance; E—Other
Enter appropriate letter(s): A

12. PROPOSED FUNDING

| | |
|---|---|
| a. FEDERAL | $ 216,312 .00 |
| b. APPLICANT | 40,000 .00 |
| c. STATE | .00 |
| d. LOCAL | .00 |
| e. OTHER | .00 |
| f. Total | $ 256,312 .00 |

13. CONGRESSIONAL DISTRICTS OF:
- a. APPLICANT: Utah 2nd
- b. PROJECT: Utah 2nd

15. PROJECT START DATE Year month day: 19 88 10 1
16. PROJECT DURATION: 36 Months
18. DATE DUE TO FEDERAL AGENCY Year month day: 19

14. TYPE OF APPLICATION
A—New; B—Renewal; C—Revision; D—Continuation; E—Augmentation
Enter appropriate letter: A

17. TYPE OF CHANGE (For 14c or 14e)
A—Increase Dollars; B—Decrease Dollars; C—Increase Duration; D—Decrease Duration; E—Cancellation; F—Other (Specify):
Enter appropriate letter(s):

19. FEDERAL AGENCY TO RECEIVE REQUEST: DOE Office of Energy Research

20. EXISTING FEDERAL GRANT IDENTIFICATION NUMBER

a. ORGANIZATIONAL UNIT (IF APPROPRIATE): Office of Energy Research

b. ADMINISTRATIVE CONTACT (IF KNOWN): Ryszard Gajewski

c. ADDRESS: Acquisition and Assistance Management Division
Office Energy Research ER64 DOE Washington DC 20545

21. REMARKS ADDED: ☐ Yes ☒ No

**SECTION II—CERTIFICATION**

22. THE APPLICANT CERTIFIES THAT: To the best of my knowledge and belief, data in this preapplication/application are true and correct, the document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached assurances if the assistance is approved.
- a. YES, THIS NOTICE OF INTENT/PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____
- b. NO, PROGRAM IS NOT COVERED BY E.O. 12372 ☐ OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW ☐

23. CERTIFYING REPRESENTATIVE
- a. TYPED NAME AND TITLE: James J. Brophy, Vice President for Research
- b. SIGNATURE: James J Brophy

**SECTION III—FEDERAL AGENCY ACTION**

24. APPLICATION RECEIVED Year month day: 19

25. FEDERAL APPLICATION IDENTIFICATION NUMBER

26. FEDERAL GRANT IDENTIFICATION

27. ACTION TAKEN
- ☐ a. AWARDED
- ☐ b. REJECTED
- ☐ c. RETURNED FOR AMENDMENT
- ☐ d. RETURNED FOR E.O. 12372 SUBMISSION BY APPLICANT TO STATE
- ☐ e. DEFERRED
- ☐ f. WITHDRAWN

28. FUNDING

| | |
|---|---|
| a. FEDERAL | $ .00 |
| b. APPLICANT | .00 |
| c. STATE | .00 |
| d. LOCAL | .00 |
| e. OTHER | .00 |
| f. TOTAL | $ .00 |

29. ACTION DATE Year month day: 19

30. STARTING DATE Year month day: 19

31. CONTACT FOR ADDITIONAL INFORMATION (Name and telephone number)

32. ENDING DATE Year month day: 19

33. REMARKS ADDED: ☐ Yes ☐ No

OFFICIAL FILE COPY

ER F 4620.1
(7-85)

U.S. Department of Energy

# Grant Application Budget Period Summary

*(See Reverse for Definitions and Instructions)*

OMB Approval
No. 1910-1400

**Please Print or Type**

| Organization: | Period Covering: | FOR DOE USE ONLY |
|---|---|---|
| University of Utah | From: 10-1-88 | Proposal No: |
| Principal Investigator (P.I.)/Project Director (P.D.): Stanley Pons | To: 9-30-89 | Award No.: |

| A. SENIOR PERSONNEL PI/PD Co PIs, Faculty and Other Senior Associates (List each separately with title, A.6 show number in brackets. Attach separate sheet. If required.) | DOE Funded Person-Mos. Cal. | Acad. | Sumr. | Funds Requested By Applicant $ |
|---|---|---|---|---|
| 1. Martin Fleischmann, Co PI, Professor | 4 | | | 16,000 |
| 2. No Employee Benefits/From England | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. ( 1 ) TOTAL SENIOR PERSONNEL | | | | |
| B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) | | | | |
| 1. ( 1 ) POST DOCTORAL ASSOCIATES | 12 | | | 20,000 |
| 2. ( 1 ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.) | 12 | | | 18,000 |
| 3. ( 2 ) GRADUATE STUDENTS | 12 | | | 20,000 |
| 4. ( ) UNDERGRADUATE STUDENTS | | | | |
| 5. ( ) SECRETARIAL-CLERICAL | | | | |
| 6. ( ) OTHER | | | | |
| TOTAL SALARIES AND WAGES (A + B) | | | | 74,000 |
| C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) Postdoc 14%; Techn. 30%; Grad. Stu. 8% | | | | 9,750 |
| TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) | | | | 83,750 |
| D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM) Calorimeter for temp msmt | | | | 23,500 |
| 3 Potentiostat-galvanostats-power for cells | | | | 17,940 |
| 1 Waveform generator for potential programs | | | | 5,790 |
| Temp tranducers, PC for control and recording | | | | 11,000 |
| TOTAL EQUIPMENT | | | | 58,230 |
| E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) | | | | |
| 2. FOREIGN Fleischmann to Utah to participate in work | | | | 2,500 |
| F. OTHER DIRECT COSTS | | | | |
| 1. MATERIALS AND SUPPLIES Rods, heavy water, other metals | | | | 48,000 |
| 2. PUBLICATION COSTS/PAGE CHARGES | | | | 500 |
| 3. CONSULTANT SERVICES | | | | |
| 4. COMPUTER (ADPE) SERVICES | | | | |
| 5. CONTRACTS AND SUBGRANTS | | | | |
| 6. OTHER | | | | |
| TOTAL OTHER DIRECT COSTS | | | | 48,500 |
| G. TOTAL DIRECT COSTS (A THROUGH F) | | | | 192,980 |
| H. INDIRECT COSTS (SPECIFY RATE AND BASE) 47% Direct Costs, except equipment | | | | |
| TOTAL INDIRECT COSTS | | | | 63,332 |
| I. TOTAL DIRECT AND INDIRECT COSTS (G & H) | | | | 256,312 |
| J. APPLICANT'S COST SHARING (IF ANY) | | | | 40,000 |
| K. TOTAL AMOUNT OF THIS REQUEST (ITEM I LESS ITEM J) | | | | 216,312 |

For Further Information Other Than Technical Content Please Call H. Timpson Sponsored Projects 801-581-6903

| | |
|---|---|
| PI/PD TYPED NAME & SIGNATURE Stanley Pons | DATE 1/31/89 |
| INST. REP. TYPED NAME & SIGNATURE James J. Brophy<br>JAMES J. BROPHY<br>Vice President For Research | DATE JAN 31 1989 |

Equipment Justification

Potentiostat-galvanostats are instruments used for accurately controlling the potential and/or current applied between the electrodes in the cell. There will be several of these operating at the same time, and for extended periods of time. We have requested three of these to control three cells simultaneously. Suitable instruments cost $5,980 each.

The calorimeter setup requested will consist of glass evacuated dewar type cells to contain the rods, counter electrodes, and solutions; two constant temperature baths to hold the cells; accurate thermistors and voltmeters to monitor relative changes in the temperature of the cells and bath; and a scintillation counter to monitor the changes in the tritium content of the dewars. The cost of these components is $23,500.

A waveform generator is requested to drive the potentiostats above when applying potential programs to the experiments. This device will be required for experiments dealing with the determination of the heavy water equivalent of each cell. These experiments require precise timing of applied voltage/current levels. The cost for a suitable instrument is $5,790.

A personal computer is requested for recording of the various variables in the experiments: cell current, cell voltage, applied voltage, bath temperature, dewar temperature, and scintillation counts for blanks, controls, and dewars. The device will also be used for calculation and plotting of the cooling curves and thermal equivalents, as well as general calculations. Interfaces for the various transducers (A/D converters; suitable bus configuration), extended memory, large hard disk, and a printer output are required. The components cost $11,000.

Travel Justification

Professor Fleischmann intends to travel from the University of Southampton, Southampton, UK, to London to Salt Lake, and return, two times during the first year. Travel to London return is calculated to be $70, and airfare (return) from Gatwick to Salt Lake (recent cheapest fare) calculated to be $1,180 either on Delta or British Air-Continental. For two trips, this is $2,500. Professor Pons will be responsible for local expenses in Salt Lake City.

Materials and Supplies

The metal rod electrodes are to be purchased in 10 to 20 cm lengths and in diameters from 1 to 30 mm. High purity metals are required. High purity deuterium oxide is used as the solvent and fuel. We estimate that we will require 20 kG during the first year. Platinum wire will be used as the counter electrode in each cell. Each cell requires approximately 5 feet of wire. In addition, there will be Pt supports, framing, and wire necessary for the neutron counting experiment, as well as a 50 x 50 x 1 mm Pd sheet as the working electrode. The costs for primary electrode metals will be $35,500, platinum $4,500, and deuterium oxide $8,000.

ER F 4620.1A
(7-85)

U.S. Department of Energy

# GRANT APPLICATION
# PROJECT PERIOD SUMMARY

*(Must be completed for all new and renewal applications.)*

Please Print or Type

OMB Approval
No 1910-1400

| Categories | 01 Budget Period | 02 Budget Period | 03 Budget Period | 04 Budget Period | 05 Budget Period |
|---|---|---|---|---|---|
| A. Senior Personnel Totals | 16000 | 18000 | 20000 | | |
| B. Other Personnel Totals | 58000 | 60000 | 62000 | | |
| C. Fringe Benefit Totals | 9750 | 9910 | 10070 | | |
| Total of A, B & C | 83750 | 87910 | 92070 | | |
| D. Equipment | 58230 | 10000 | 10000 | | |
| E. Travel 1. Domestic | | | | | |
| 2. Foreign | 2500 | 3000 | 3500 | | |
| F. Other Direct Costs | 48500 | 52000 | 58000 | | |
| G. Total Direct Costs | 192980 | 152910 | 163570 | | |
| H. Total Indirect Costs | 63332 | 67168 | 72178 | | |
| I. Total Direct & Indirect Costs | 256312 | 220078 | 235748 | | |
| J. Applicant's Cost-Sharing (If any) | 40000 | 8000 | 8000 | | |
| K. Total Amount of Request (Item I. Less Item J.) | (1)* 216312 ✓ | (2) 212078 ✓ | (3) 227748 ✓ | (4) | (5) |

*This should equal item K on Budget Period Summary (ER/F/4620.1)

**ESTIMATE**

**TOTAL COST OF PROJECT**

$ 656,138

**(add K(1) thru (5))**