

Newsroom, Baltimore Convention  
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NEW YORK--April 27, 1989  
FOR IMMEDIATE RELEASE

REVISED SCHEDULE OF NEWS CONFERENCES  
1989 Spring Meeting of The American Physical Society  
Baltimore, Maryland

\*\*\* Note: This first news conference will be held in Washington, DC in  
the Renwick Room in the Grand Hyatt Hotel, 10th and F Streets.

2 PM, Monday, May 1, 1989

Superconducting Super Collider

Roy Schwitters, Harvard University and SSC (paper A1-1)  
Thomas W. Kirk, SSC (A1-2)  
Murdoch G.D. Gilchrease, SSC (A1-3)  
Chris Quigg, SSC (A1-4)

The proposed Superconducting Super Collider (SSC), designed to  
accelerate protons up to energies of 20 trillion electric volts, would  
be the most expensive scientific project ever undertaken by the U.S.  
Government. At this session SSC director Roy Schwitters and others  
from the SSC staff will discuss technical and scientific issues such  
as magnet design, high-rate detector development, and physics goals to  
be pursued at the SSC. The speakers will be delivering their papers  
in Baltimore Monday morning as a regular part of the APS meeting  
(session A1).

\*\*\* Note: The next news conference will be held in Room 305 at the Baltimore Convention Center.

10 AM, Tuesday, May 2, 1989

Cold Fusion

(Speakers list to be announced.)

Cold fusion, the fusion of hydrogen isotopes at room temperature, is a subject of potentially great scientific and technological importance. In order to provide an assessment of some of the experiments reporting cold fusion results in recent weeks, the APS has arranged a special session on the subject. The present news conference draws together some of the speakers from that session. (The session itself will be held Monday, May 1, at 7:30 PM in Exhibit Hall E.)

\*\*\* Note: All further news conferences listed below will be held in Room 313 of the Baltimore Convention Center.

12:00 noon, Tuesday, May 2, 1989

Nuclear Sea-Launched Cruise Missiles

Richard Scribner, Georgetown University (chair, session C2)  
 George N. Lewis, Stanford University (C2-2)  
 Valerie Thomas, Princeton University (C2-3)  
 Sally K. Ride, Stanford University (C2-4)  
 Oleg Prilutsky, Soviet Academy of Sciences, USSR (C2-5)

Various issues concerning nuclear-armed, sea-launched cruise missiles to be considered: their role in the American and Soviet arsenals, detection and early warning, and verification of limitations imposed by arms-control agreements.

1 PM, Tuesday, May 2, 1989

Physics Nobel Laureates

Melvin Schwartz, Digital Pathways (paper D1-1)  
 Leon M. Lederman, Fermilab (D1-3)

The 1988 Nobel Prize in physics was awarded to the leaders of an experiment which used the first man-made neutrino beam and which established the existence of the muon neutrino. Two of those scientists discuss past and future neutrino experiments.

AMERICAN PHYSICAL SOCIETY

SPECIAL SESSION ON COLD FUSION: Monday Evening, 1 May, 1989  
Exhibit Hall E. Baltimore Convention Center

INVITED TALKS:

- 1 Cold Nuclear Fusion: Recent Results and Open Questions. S.E. Jones  
Brigham Young University (Same Paper as J1 3)
- 2 Cold Fusion: Can It Be True? A Theoretical Point of View. J. Rafelski  
University of Arizona-Tucson

QUESTIONS

- 3 Theoretical Issues and Problems Raised By Cold Fusion Experiments.  
S.E. Koonin, University of California-Santa Barbara
- 4 Calorimetry, Neutron Flux, Gamma Flux, and Tritium Yield from  
Electrochemically Charged Palladium in D<sub>2</sub>O. Nathan Lewis, Charles  
Barnes, Steven Koonin, California Institute of Technology

QUESTIONS

CONTRIBUTED TALKS:

- 5 Boson Screening of Deuterium in Metals. K.B. Whaley, University  
of California-Berkeley

QUESTIONS

- 6 An Investigation of Cold Fusion using a Sensitive Neutron Detector.  
W.K. Brooks, D.G. Marchelski, J.D. Kalen, M.S. Islam, M. Kaitchuck,  
R. McCreery, R.N. Boyd, P. Holbrooke, H. Dyke, Ohio State University
- 7 Search for Neutron Production in a Palladium-Heavy Water Electrolytic  
Cell. R. Hirošky, E. Buchanan, J. Jorne, A.C. Melissinos, J. Toke,  
University of Rochester
- 8 A Search for Cold Fusion Neutrons at ORELA. D.P. Hutchinson, R.K.  
Richards, C.A. Bennett, C.C. Havener, C.H. Ma, F.G. Perey, R.R.  
Spencer, J.K. Dickens, B.D. Rooney, Oak Ridge National Laboratory,  
J. Bullock IV, G.L. Powell, Y-12 Development

QUESTIONS

- 9 Analysis of "Excess Power in Cold Fusion". W.E. Meyerhof, Stanford  
University, D.L. Huestis, D.C. Lorents, SRI International
- 10 Gamma's from Cold Fusion. D. Bailey, University of Toronto
- 11 Sources of Neutrons and Tritium from D-Li-6 Mixtures. Lawrence  
Cranberg, TDN, Inc.

QUESTIONS

- 12 Searches for Cold Fusion. E.B. Norman, B. Sur, K.T. Lesko, K.R. Czerwinski, H.L. Hall, R.A. Anderson, D.C. Hoffman, Lawrence Berkeley Laboratory
- 13 Search for Cold Fusion in Electrolytic Cells. D.R. McCracken, J. Paquette, R.E. Johnson, N.A. Briden, W.G. Cross, A. Arneja, D.C. Tennant, M.A. Lone, W.J.L. Buyers, Chalk River Nuclear Laboratories
- 14 Search for D<sub>0</sub>-Fusion Neutrons. D. Seeliger, K.W. Weisener, A. Meister, D. Ohms, D. Rahner, R. Schwierz, P. Wüstner, Tech. University Dresden

QUESTIONS

- 15 Fusion Rates for Hydrogen Isotopic Molecules of Relevance for Cold Fusion. K. Salewicz, J.D. Morgan III, University of Delaware, H.J. Monkhorst, University of Florida
- 16 Upper Limits to Fusion Rates of Isotopic Hydrogen Molecules at High Electron Density Interstitial Pd Sites. L. Wilets, M. Alberg, J.J. Rehr, J. Mustre de Leon, University of Washington
- 17 "Solid-State" Effects Cannot Enhance the Cold Fusion Rate Enough. A.J. Leggett, G. Baym, University of Illinois

QUESTIONS

- 18 Electrochemically Induced Excess Heat in a "Cold Fusion" Cell with a Zr<sub>2</sub>Pd Electrode. Joseph Cantrell, William E. Wells, Miami University
- 19 Search for Fusion Products Using X-Ray Detection. M.R. Deakin, J.D. Fox, K.W. Kemper, E.G. Meyers, W.N. Shelton, J.G. Skofronick, Florida State University
- 20 Search for Neutrons and Gamma-Rays From "Cold Fusion" in Deuterided Metals. M. Gai, S.L. Rugari, R.H. France, B.J. Lund, Z. Zhao, Yale University, A.J. Davenport, H.S. Isaacs, K.G. Lynn, Brookhaven National Laboratory

QUESTIONS

Additional talks will be scheduled on Tuesday, beginning with a review to date by D.Q.O. Morrison, CERN. Program will be published Monday afternoon.

## AMERICAN PHYSICAL SOCIETY

SPECIAL SESSION II ON COLD FUSION: Tuesday Evening, 2 May, 1989 7:30 PM  
 Room 317 Baltimore Convention Center

David Micha, Chair

## CONTRIBUTED TALKS

- 21 7:30 A Survey of Cold Fusion. Douglas R.O. Morrison, CERN (25)

## QUESTIONS

## Experimental

- 22 8:00 Dynamic Response of Thermal Neutron Measurements in Electrochemically Produced Cold Fusion Subject to Pulsed Current. J.R. Granada, J. Converti, R.E. Mayer, G. Guido, P.C. Florido, N.E. Patino, L. Sobehart, S. Gomez, A. Larreteguy, Bariloche (Argentina)
- 23 Examination of Nuclear Measurement Conditions in Cold Fusion Experiments. D. Abriola, E. Achterberg, M. Davidson, M. Debray, M.C. Etchegoyen, N. Fazzini, J. Fernandez Niello, A.M.J. Ferrero, A. Filevich, M.C. Galia, R. Garavaglia, G. Garcia Bermudez, R.T. Gettar, S. Gil, H. Grahmann, H. Huck, A. Jech, A.J. Kreiner, A.O. Macchiavelli, J.G. Magallanes, E. Maqueda, G. Marti, A.J. Pacheco, M.L. Perez, C. Pomar, M. Ramirez, M. Scasserra CNEA (Argentina)
- 24 Gamma-Ray Spectra in the Fleischmann, Pons, Hawkins Experiment. R.D. Petraso, X. Chen, K. Wenzel, R.R. Parker, C.K. Li, C. Fiore, Plasma Fusion Center, Massachusetts Institute of Technology,
- 25 Measurements of Neutron and Gamma Ray Emission Rates and Calorimetry in Electrochemical Cells Having Palladium Cathodes. S.C. Luckhardt, X. Chen, C. Fiore, M. Gaudreau, D. Gwinn, P. Lindsay, R. Parker, R. Petraso, K. Wenzel, R. Crooks, V. Cammarata, M. Schloh, D. Albagli, M. Wrighton, R. Ballinger, I. Hwang, Massachusetts Institute of Technology
- 26 Tests of "Cold Fusion" in a New Configuration. F. Skiff, H.M. Milchberg, J. Rogers, Laboratory for Plasma Research, University of Maryland

## QUESTIONS

## Theoretical

- 27 8:50 Cold Nuclear Fusion in Dense Metallic Hydrogen: Implications for Astrophysics. C.J. Horowitz, Nuclear Theory Center, Indiana University
- 28 Theory of Cold Fusion. M. Danos, National Institute of Standards & Technology

- 29 Limits on Cold Fusion in Matter: a Parametric Study, J. Rafelski, M. Gajda, D. Harley, S.E. Jones  
University of Arizona

## QUESTIONS

- 30 9:20 Electron Catalyzed Fusion in Metals. D.A. Brown, R.G. Goodrich, P.N. Kirk, E.F. Zganjar  
Louisiana State University

- 31 The Cold Fusion Rate of d-d in PdDx Hydride and the Branching Ratio of He-4 to (p,n) Production Reactions. Hiroshi Takahashi  
Brookhaven National Laboratory

- 32 Criterion for Cold Fusion in the Condensed State. E.A. Stern  
University of Washington, Seattle

## QUESTIONS

- 33 9:50 Theoretical Estimates of the Enhancement of Cold Fusion of Deuterium in Deuterated Palladium Systems. M.W.C. Charma-Wardana, G.C. Ayers  
National Research Council of Canada, Ottawa

- 34 Chemical Forces Associated with Confinement of Deuterium in Palladium. B.I. Dunlap, J.W. Mintmire, D.W. Brenner, R.C. Mowry, H.D. Ladouceur, P.P. Schmidt, C.T. White, W.E. O'Grady  
Naval Research Lab

- 35 Molecule-Nucleus Resonance Enhancement of Cold Nuclear Fusion. A.V. Barnes, Heath Pois  
Vanderbilt University

## QUESTIONS

- 36 10:20 The Bond Length of the Deuterium Molecule in a Metallic Lattice. A.B. Hassam, University of Maryland  
A.N. Dharamsi, Old Dominion University

- 37 Fluctuations and Cold Fusion. Ming Li  
University of Maryland

- 38 Simple yet Accurate Model Potential for Calculating Cold Fusion Rates. J.D. Morgan III, Harvard University  
H.J. Monkhorst, Univ. of Florida

## QUESTIONS

- 39 11:50 Exotic QED and Cold Nuclear Fusion. Ming Li  
University of Maryland

- 40 Search for Radiations from Cold Fusion in Pd-D System. R.S. Raghavan, L.C. Feldman, M.M. Broer, A. James, D. Murphy  
AT&T Bell Laboratories, Murray Hill, NJ