

## List of Underwater Mining Institutes

*(updated 2/1/2006)*

36<sup>th</sup> UMI 2006. Kiel, Germany (Leibniz Institute of Marine Sciences at Kiel University). Scientific, Legal and Economic Perspectives of Marine Mining, September 24-30.

35<sup>th</sup> UMI 2005. Monterey, California US (US Geological Survey, Menlo Park, CA). Marine Minerals: Crossroads of Science, Engineering and the Environment, involving hydrothermal sulfide deposits, methane hydrates, engineering, manganese deposits, November 1-5.

34<sup>th</sup> UMI: 2004 London, United Kingdom (Imperial College). Marine Minerals: The European Dimension covering recent development in aggregates and shelf minerals, hydrothermal mineralization, and recent engineering applications, September 1-7.

33<sup>rd</sup> UMI: 2003 Jeju, Korea (Korea Ocean Research and Development Institute). New Horizons for Marine Mining: Progress through International Cooperation, October 6-10.

32<sup>nd</sup> UMI: 2002 Wellington, New Zealand (Institute of Geological and Nuclear Sciences). New Perspectives on Seabed Mineral Deposits, involving submarine hydrothermal deposits with emphasis on volcanic arcs, seabed methane hydrates and hydrocarbon seeps, recent legal and regulatory issues, and new scientific discoveries.

31<sup>st</sup> UMI: 2001 Hilo, Island of Hawai'i (U.S. Geological Survey, Menlo Park, CA). Going to Extremes: Seabed Mining and Biotechnology, involving seabed hydrothermal deposits and their associated ecosystems.

30<sup>th</sup> UMI: 2000 Honolulu, O`ahu, Hawai'i (University of Hawai'i) involving the commercial, technological, scientific, and political aspects of marine minerals development.

29<sup>th</sup> UMI: 1998 Toronto, Canada (University of Toronto) involving diamonds and metals: recent contributions of commercial activities and marine research to the development of high value terrestrial and marine deposits.

28<sup>th</sup> UMI: 1997 Seattle, Washington (Sound Ocean Systems, Redmond, Washington) involving the advancement of marine mineral studies and technological developments.

27<sup>th</sup> UMI: 1996 Washington, DC (National Academy of Sciences) involving marine minerals and international marine policy, and the development of nonliving resources.

26<sup>th</sup> UMI: 1995 St. John's, Newfoundland, Canada (University of St. John's at Newfoundland) involving aggregates and placers and environmental and policy issues.

25<sup>th</sup> UMI: 1994 Monterey, California (U.S. Geological Survey, Menlo Park, CA) involving environmental impacts of marine minerals development and the status of deep seabed mining and seabed hydrothermal deposits.

24<sup>th</sup> UMI: 1993 Estes Park, Colorado (University of Toronto and NOAA National Geophysical Data Center, Boulder, CO) involving massive sulfides in the oceans: lessons for land and sea exploration, November 7-10.

23<sup>rd</sup> UMI: 1992 Arlington, Virginia (U.S. Minerals Management Service, Herndon, VA) involving new discoveries of sulfide deposits, environmental impact studies, and continental shelf deposits, September 27-29.

22<sup>nd</sup> UMI: 1991 Kahuku, O`ahu, Hawai'i (Marine Minerals Technology Center, Hawai'i and Mississippi) involving cobalt rich seamounts, sampling systems, sand mining, and geothermal development.

21<sup>st</sup> UMI: 1990 Victoria, British Columbia, Canada, September 23-26, involving environmental impact issues.

20<sup>th</sup> UMI: 1989 Madison, Wisconsin (Sea Grant Institute, University of Wisconsin-Madison), involving the latest information on hydrothermal studies, manganese nodules and crusts, placers, and marine mining technology, institutions, and financing, October 1-4.

19<sup>th</sup> UMI: 1988 Woods Hole, Massachusetts (U.S. Geological Survey, Woods Hole, MA; IMMS, MMTS (Hawai'i and Mississippi) and Woods Hole Oceanographic Institution), October 2-5.

18<sup>th</sup> UMI: 1987 Newport, Oregon (NOAA Pacific Marine Environmental Laboratory), focusing on hydrothermal deposits and environmental impact issues, October 4-7.

17<sup>th</sup> UMI: 1986 Biloxi, Mississippi (Mississippi Minerals Resources Institute), focusing on marine aggregate mining, November 2-5.

16<sup>th</sup> UMI: 1985 Halifax, Nova Scotia, Canada (Sea Grant Institute, University of Wisconsin, IMMS, and University of Texas-Austin), focusing on hydrothermal deposits and Canadian marine research, October 20-22.

15<sup>th</sup> UMI: 1984 Madison, Wisconsin (Sea Grant Institute, University of Wisconsin-Madison), focusing on hydrothermal deposits.

14<sup>th</sup> UMI: 1983 Madison, Wisconsin (Sea Grant Institute, University of Wisconsin-Madison), focusing on September 1983 coring results on the Juan de Fuca Ridge and the latest on the Red Sea, November 6-8.

13<sup>th</sup> UMI: 1982 Madison, Wisconsin (Sea Grant Advisory Services, University of Wisconsin), focusing on new looks at traditional topics (placers, nodules, engineering constraints in coastal mining, and robotics) and on new papers on sulfides and spreading centers), October 26-28.

12<sup>th</sup> UMI: 1981 Madison Wisconsin (Sea Grant Advisory Services, University of Wisconsin), focusing on sulfides and the geopolitics and critical importance of our strategic mineral supply position, October 20-22.

11<sup>th</sup> UMI: 1980 Savannah, Georgia (Sea Grant Institute, University of Wisconsin), focusing on deep sea sulfides and in-shore placers, November 11-13.

9<sup>th</sup> UMI: 1978 San Diego, CA (Sea Grant Programs of U of Alaska and Wisconsin), focusing primarily on nodule mining, October 19-20.

8<sup>th</sup> UMI: 1977 Seattle, Washington (Sea Grant Programs of U of Alaska and Wisconsin), focusing on the changing events in the world scene of legal, political, and economic factors and the technological developments and environmental concerns., November 10-11.

7<sup>th</sup> UMI: 1976 Madison, Wisconsin (Sea Grant College Program, University of Wisconsin), October 28-29, focusing on manganese nodule mining.

6<sup>th</sup> UMI: 1975 Madison, Wisconsin (Sea Grant College Program, University of Wisconsin), October 2-3, focusing on manganese nodule and placer mining.

5<sup>th</sup> UMI: 1974 Milwaukee, Wisconsin (Sea Grant College Program, University of Wisconsin), focusing on manganese nodule mining, May 9-10.

4<sup>th</sup> UMI: 1973 Milwaukee, Wisconsin (Sea Grant College Program, University of Wisconsin), involving early commercial production of deepsea nodules, details of some new underwater mineral prospects, and some profitable approaches to both exploration and metal processing, April 12-14.

3<sup>rd</sup> UMI: 1972 Milwaukee, Wisconsin (Sea Grant College Program University of Wisconsin), involving early commercial production from new discoveries, including presentations on new underwater mines, April 27-28.

1<sup>st</sup> UMI: 1970 Milwaukee, Wisconsin (Sea Grant Program, The University of Wisconsin), focusing on manganese nodule mining, April 28-29.