



IAAAM NEWS IAAAM NEWS IAAAM NEWS

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PLAN NOW TO ATTEND THE 7TH ANNUAL CONFERENCE AND WORKSHOP OF THE IAAAM at the Olympic Hotel in Seattle, Washington April 25-28, 1976. The IAAAM has reserved a block of rooms at the Olympic. **The cut off date for guaranteed reservations is March 25** after which reservations will be on a space available basis so please make your reservations early. A special postage paid reservation card is enclosed for this purpose. Attendees from outside the U.S. should add sufficient postage for air mail.



THE SCIENTIFIC PROGRAM this year will consist of papers on **fish culture and health** as well as **marine mammal medicine and husbandry**. There will be **panel discussions on water systems and transport of aquatic animals**, and some **technical papers**. There will also be a **regulatory session**. A partial list of speakers and topics is as follows:

Lee W. Harrell, D.V.M., M.S., National Marine Fisheries Service
"Disease Prophylaxis Research in Ocean Pen Reared Salmon"

Donald F. Amend, Ph.D., Western Fish Disease Laboratory,
"Recent Advances in the Mass Immunization of Fish"

E. Evan Brown, Ph.D., U. of Georgia Dept. of Agricultural Economics
"Scandinavia's Cultured Fish Industry"

Gary Wedemeyer, Ph.D., Western Fish Disease Laboratory,
"Physiological Response of Fish to Stress"

William T. Yasutaki, B.S., M.S., Western Fish Disease Laboratory,
"Histopathology of Some Common Diseases of Salmonids"

John B. Gratzek, D.V.M., Ph.D., U. of Georgia Dept. of Med. Microbiology
"An Approach to Building A Private Pet Fish Practice"

Carol J. Bodily, D.V.M., Bellevue, Wahsington
"Experiences in a Private Pet Aquatic Animal Practice"

Richard K. Stroud, D.V.M., School of Med. Ore. St. U.
"Fish Health and Veterinary Practice Acts in the U.S. and Canada"

Douglas G. Chapman, Ph.D., Dean, College of Fisheries, U. of Washington
"The International Whaling Commission - History and Current Role in Whale Conservation"

Raymond C. Hubley, Jr., Chief, Marine Mammals and Endangered Species Division

and
Robert B. Brumsted, Marine Mammal Coordinator, Dept. of IAAAM 6th Annual Conference Proceedings, 1975, Amsterdam, the Netherlands

Commerce
and
Stephen J. Powell, Western Regional Counsel, Dept. of Commerce

"The Marine Mammal Protection Act of 1972: Update"

Mark C. Keyes, D.V.M., Marine Mammal Division, N.W. Fisheries Ctr.

"Experimental Determination of the Most Humane Methods of Slaughtering Fur Seals"

Carl Gustafson, Ph.D., Dept. of Anthropology, Wash. ST. U.
"Evidence of Fur Seal Migration Patterns"

Roger L. Gentry, Ph.D., Marine Mammal Division, N.W. Fisheries Ctr.

"Physical Restraint in Immobilizing Large Pinnipeds"

David Butcher, SeaWorld of Florida, and Bruce Stevens, SeaWorld of Ohio

"A New Technique for Training Killer Whales"

Joseph C. Fanning, Ph.D and Richard J. Harrison, Ph.D., University of Adelaide and University of Cambridge

"Some Distinguishing Characteristics of the South Australian Bottle-nosed Dolphin"

Richard K. Stroud, D.V.M., School of Med., Ore. St. U.
"Investigations of Marine Mammal Strandings Along the Oregon Coast"

Ted Hammond, D.V.M., Hong Kong Jockey Club's Ocean Park

"Bacterial Infections in Marine Mammals of Asia"

Jay Sweeney, V.M.D., Naval Undersea Center
"Thermal Stress and its Significance in Disease Outbreaks in Marine Mammals"

Dan Laughlin, D.V.M., Brookfield Zoo
"Acute Hemorrhagic Pancreatitis in a Tursiops"

Thomas A. Gornall, III, D.V.M., Seattle Marine Aquarium
"Geriatric Medication of Marine Mammals"

Jay Sweeney, V.M.D., Naval Undersea Center
"Assorted Diagnostic and Therapeutic Techniques; Review and Update"

R. Keith Farrell, D.V.M., Wash. St. U. and U.S. Dept. of Agriculture
"Freeze Brand Cryotherapy"

James E. Heavner, D.V.M., Ph.D., Anesthesiology Res. Ctr., U. of Wash.

"Current Trends and Recent Developments in Animal Anesthesia"
"Pharmacology of the Adrenergic Nervous System Specifically Related to Animal Anesthesia"

Douglas Kemper, B.A., M.A., Director, Seattle Municipal Aquarium

Panel Discussion on: "Technical Considerations in Planning an Ideal Water System for Marine Animals"

Panel Members: Lanny Cornell, D.V.M., SeaWorld of California; Lawrence Dunn, D.V.M., Mystic Aquarium; Louis Garibaldi, Ph.D., New England Aquarium; W.K. "Kym" Murphy, SeaWorld of Florida; R.M.S. Temple, D.V.M., SeaWorld of Ohio; and Jesse White, D.V.M., Miami.

R.M.S. Temple, D.V.M.

"Panel Discussion on: "Techniques for Proper Transport of Marine Mammals"

Panel Members: Lanny Cornell, D.V.M., SeaWorld of California; Don Goldberry, Seattle Marine Aquarium; and Jesse White, D.V.M. Miami.



PRE-CONFERENCE SPECIAL BRITISH COLUMBIA AQUATIC FACILITY TOUR - Many of our members and guests have plans to visit California, Alaska, Hawaii, or the Orient immediately following the conference but would not want to miss the opportunity to visit **British Columbia** while they are so close here in Seattle. Therefore we have planned a **special tour**, for **Friday** and **Saturday** the **23rd** and **24th** of **April**, to **Vancouver**, **Nanaimo**, and **Victoria**. The tour will be led personally by Dr. and Mrs. Mark Keyes, and Dr. and Mrs. Tag Gornall. The first stop will be the **Vancouver Aquarium** where we will have a **personally conducted tour** of the aquarium by **Dr. Murray Newman**, Director. Then its **lunch aboard a luxury Canadian Ferryboat to Nanaimo** and a **tour of the Marine Station of the Fisheries Research Board of Canada**. **Dr. Michael Bigg** will personally explain **Canada's fur seal, killer whale, and salmon aquaculture** research programs and facilities there. We will have that evening and the next morning free in **Victoria** for **shopping and sightseeing**. Then we will **lunch at the fabulous Oak Bay Marina Restaurant** and tour the unique **Victoria Aquarium with our host Mr. Bob Wright**, famous Canadian killer whale trapper. On our way to the airport for our low altitude scenic flight back to Seattle we will meander through **beautiful Butchart Gardens**. The cost of this two day tour including motorcoach, boat, lodging at the Executive House, air fare via Pacific Western Airlines, and Transfer back to the Olympic Hotel is just \$74.50 per person. **Please make your reservation as soon as possible so that we can be sure to accommodate everyone.**



SPECIAL CONFERENCE ACTIVITIES AND LADIES PROGRAM - The conference activities start with the **British Columbia Trip** the **23rd** and **24th** of **April**. **Sunday morning** and afternoon can be devoted to **Seattle sightseeing**, and an official city tour has been included in the travel package, not only to satisfy the desires of visiting conferees and their families, but also to satisfy ATC (American Travel Conference) requirements for sanction of reduced air fares as arranged by our official travel agent, Atlas World Travel. For those who wish to be on their own, Avis Rent A Car System is offering special rates to our conferees (see notice in this newsletter). **Sunday evening** we will have our traditional **reception** to be held in the **Williamsburg Room** of the **Olympic Hotel**. **Monday** we will have a **joint luncheon** with ladies and guests in the Hotel's famous **Olympic Bowl**. The **celebrity guest speaker** is a surprise. **Monday evening** will feature no **host dining** at the **Space Needle**, Seattle World's Fair towering revolving restaurant, followed by an informal program of **aquatic animal films** in the **Williamsburg Room**. The **Executive Board will meet** during or at the conclusion of the film session. Anyone wishing to show films at this session should notify Dr. Jay Hyman prior to that event. The film session will last as long as the stamina of viewers will permit. **Tuesday noon** there will be a business luncheon for members and associate members. **Tuesday evening** SeaWorld will host a **Blake Island Tillicum Village, authentic Northwest Indian salmon bake** to which all conferees and their families are invited. Blake Island is located on the other side of Elliot Bay in Puget Sound and so involves a **scenic boat ride**. Fresh barbecued salmon is like no other fish you have ever eaten. **Wednesday evening** the **reception and banquet** will be in the **Olympic's Georgian Room** starting at **6pm**. The banquet menu will begin appropriately with **Mermaid Salad** and topped off with **Baked Alaska**, after which we will dance to the super music of the fabulous **Winston Baker Quartet** from nine to midnight. Winston has played for several of the finest dance bands in the Northwest and combines the wizardry of George Shearing, Frankie Carl, and Carman Cavellaro into a very pleasing style. Drums, base, and sax fill out the

quartet which has a beat and repertoire to please all ages who like to dance or just listen, and requests are welcome. Remember, the joint luncheon, banquet, and dance are in the registration fee of \$50.00 for attendee and spouse and \$40.00 for attendee only. **Tickets for additional guests may be purchased at the registration desk up until noon, Tuesday, the 27th.** On **Thursday the 29th** there will be a **variety of special tours** for anyone who wishes to stay over another day. These include the **Seattle Marine Aquarium**, the **Pt. Defiance Aquarium** and **Sea Otter Exhibit**, the **Woodland Park Zoo**, the **National Marine Fisheries N.W. Fisheries Center** next to the Seattle Yacht Club, the **National Marine Fisheries Service's Marine Mammal Division** at Sand Point Naval Support Activity on Lake Washington, the **National Marine Fisheries Service's Aquaculture Program** across the Bay at **Manchester**, and the **Fish and Wildlife Service's Western Fish Disease Laboratory**, also located on Lake Washington at the Naval Support Activity at Sand Point. **Please indicate to me (Mark Keyes) which of these facilities you wish to visit, and do so as soon as possible, so I can make the necessary arrangements for scheduling, hosting, and transportation.**

Although the ladies will be participating in most of the foregoing events and activities, and are most welcome to attend the scientific program, **Joy Gornall has planned some special activities just for the ladies.** On **Monday the 26th** there will be a tour of **Underground Seattle** and a visit to the **incredible Pike Place Public Market**, and on **Tuesday the 27th** an **extra special Seattle City Tour** including **Brunch** at one of Seattle's leading gourmet restaurants, **The Mirabeau**, atop the 50 story First National Bank Building. The **Seattle World's Fair Science Center** and the **Seattle Art Museum** are included in this tour. Wednesday will be left free for shopping, the hairdressers, beautyrests, or whatever. **Please indicate to me (Mark Keyes) if you want to go on the special ladies tours, and do so as soon as possible so we can make the necessary arrangements in advance.**



AVIS RENT A CAR is pleased to offer special rates to conferees of the International Association of Aquatic Animal Medicine. Compact size cars will be available for \$11.95 and full size sedans for \$14.95 a day with no charge for mileage; you simply provide the gas. Cars may be rented at either Sea-Tac Airport or at our 1919 5th Avenue location in downtown Seattle (across from the the Washington Plaza Hotel). Plan now for your conference needs.



SQUIT BITS - Dr. Ken Gray has taken a clinical Laboratory animal medicine position with M.D. Anderson Hospital and Tumor Institute, The University of Texas System-Cancer Center, In Houston Texas (713-792-2780). His home mailing address remains unchanged (301 Stonehenge Lane, Friendswood, Texas 77546).



CLAMS AND CLATTER - Diagnosis and Treatment of Diseases of Warm Water Fish" (WL 4124/6124), will be taught at Mississippi State University May 17-28, 1976. The course is limited to 24 persons, and applications must be received on or before March 1, 1976. Write Dr. Thomas L. Wellborn, Jr. P.O. Box 5405, Mississippi State, Miss. 39762.



PIER POINTS - The Department of Anatomy, University of Queensland, St. Lucia, Queensland, Australia 4067 is offering Queen's Fellowships in Marine Science. Functional anatomy of marine mammals is the major interest of Dr. M.M. Bryden of this department, and space and facilities for anatomical study by a suitable applicant would be made available. It is possible to get material for study from several cetacean and pinniped species, as well as dugong. Write to G.S. Molyneux, Professor of Anatomy & Head of Department at the above address.

RESEARCH SUPPORTED BY THE MARINE MAMMAL COMMISSION for 1974-75

"Marine Mammal Salvage Program"
James G. Mead, Ph.D.

"A Biological Assessment of the Cetacean Fauna of the Texas Coast"
David J. Schmidly, Ph.D.

"Abundance and Distribution of Harbor and Gray Seals Along the Maine Coast"
David T. Richardson

"Remote Non-Lethal Marking Techniques for Marine Mammals"
Thomas P. Dohl

"Pulmonary Function in Wild and Captive Marine Mammals"
Gerald L. Kooyman, Ph.D.

"Aerial Censusing of Pinnipeds in the Eastern Pacific for Assessment of Population Numbers, Migratory Distributions, Rookery Stability, Breeding Effort, and Recruitment"
Dr. Bruce R. Mate

"Aerial Census, Behavior, and Population Dynamics Study of Gray Whales in Mexico During the 1974-1975 Calving and Mating Season"
Richard Gard, Ph.D.

"Field Testing of Whale Tracking and Data Recovery Systems"
Kenneth S. Norris, Ph.D.

"Mass Strandings of *Lagenorhynchus acutus*: A study into Life History and Pathobiology"
J.R. Geraci, D.V.M., Ph.D.

"Population Productivity and Food Habits of Harbor Seals in the Vicinity of Prince William Sound, Alaska"
Kenneth W. Pitcher, John S. Vania, and Karl B. Schneider

"Population Studies of the Killer Whale in the Eastern North Pacific"
Albert W. Erickson, Ph.D.

"Evaluation of Current References Resources and Development of An Effective Reference Resource Mechanism for the Marine Mammal Commission"
Phyllis Stone

"Effects of Certain Environmental Pollutants of Popping in the California Sea Lion"
William G. Gilmartin, John C. Sweeney, D.V.M. and Marshall H. Bebeau, D.V.M.

"Study and Analysis of the Number of Porpoises Killed or Seriously Injured Incidental to the Commercial Yellowfin Tuna Fishery"
William G. Clark

"A Study and Analysis of the Efforts to Reduce the Mortality and Serious Injury of Porpoises Incidental to the Commercial Yellowfin Tuna Fishery and the Impact of such Incidental Taking upon the Porpoise Populations"
August Pivorunas

"Workshop on the Killer Whales (*Orcinus orca*) in Puget Sound and Adjacent Waters"
Douglas G. Chapman, Ph.D. and Albert W. Erickson, Ph.D.

"A study of the Movements and Activities of the Atlantic Bottlenose Dolphin"
John H. Kaufmann, Ph.D. and Blair Irvine

"Population Evaluation of the Harbor Seal (*Phoca vitulina*) in the Waters of the State of Washington"
Murray L. Johnson

"Studies of Marine Mammals at the Farallon Islands (Phase II)"
David G. Ainley, Ph.D.

"Bottlenose Dolphin (*Tursiops truncatus*) Assessment Workshop"
Daniel K. Odell, Ph.D.

"Review and Evaluation of Census Procedures for Marine Mammals (Phase II)"
Douglas G. Chapman, Ph.D. and Lee L. Eberhardt, Ph.D.

"The Role of the Pacific Walrus in the Trophic System of the Bering Sea"
(Phase II)
Francis H. Fay, Ph.D.

"Energetics of the Northern Fur Seal in Relation to Food Resources and Climate of the Bering Sea"
Keith Miller, Ph.D.

"Distribution and Abundance of the Bottlenose Dolphin in Florida Waters"
Daniel K. Odell, Ph.D.

(Continued on page 4)

"Study and Analysis of the Activities of the United States Pursuant to Existing Laws and International Conventions Relating to Marine Mammals"
Edward Pinkus, Esq.

"Study and Analysis of Marine Mammals on San Miguel Island"
Robert L. DeLong

"Study and Analysis of the meaning of the term "optimum" in the Marine Mammal Protection Act"
Gerard A. Bertrand

"The Comparative Utility of Some Aerial Census Methods in Cetacean Stock Assessment"
J. Stephen Leatherwood

"Estimate of Recent Major Takings of Marine Mammals"
Robert L. Brownell, Christine M. Schonewald

"Further Investigation into Appropriate Cryogenic Marking Processes"
Lanny H. Cornell, D.V.M., Edward D. Asper

"Behavior of the Sea Otter, *Enhydra lutris*"
J.L. Kavanau

"Population Biology of Harbor Seals in San Francisco Bay, California"
R.W. Risebrough, R.L. DeLong, S.M. McGinnis, R.L. Jones

"Improved Device and Method to Prevent Porpoises Mortality"
John T. Gonsalves

"The Development of Techniques for Estimating the Trophic Impact of Marine Mammals"
Kenneth S. Norris

"Social Behavior of the Harbor Seal, *Phoca vitulina richardi*, in Oregon"
Dr. Larry G. Forslund

"Study and Analysis of the Regulation and Permit Mechanism Implementing the Marine Mammal Protection Act"
Judith Wheelus

"Study and Analysis of the Effects of Incidental Taking in the Course of the Commercial Yellowfin Tuna Fishery upon the Behavior of Affected Porpoises"
Keith Parker

"Hauling-out Behavior of the Pacific Walrus"
G. Carleton Ray, Ph.D.

"A study and Analysis of the Activities of the United States pursuant to Existing Laws and International Conventions Relating to Marine Mammals"
Fredrick R. Anderson

"Review of the Incidental Taking of Marine Mammals"
William G. Clark

"A Preliminary Study of the Ecology and Population Biology of the Bottlenose Dolphin in Southeast Florida"
Daniel K. Odell, Ph.D.

"Contributions to Studies of the Biology, Systematics, and Taxonomy of the Genera *Phoca* (*sensu stricto*) and *Odobenus*"
Francis H. Fay, John J. Burns

"The Role of the Pacific Walrus in the Trophic System of the Bering Sea"
Francis H. Fay



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