



IAAAM NEWS

**Volume 38, Number 2,
April 2007**

Craig Harms, Editor

www.iaaam.org

Mission: To advance the art and science of aquatic animal medicine and health, encourage the free exchange of knowledge in the interest of improving the health care and husbandry of domestic aquatic animals, and promote the proper conservation and management of wild aquatic animals.

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Important Dates:

Last Day to Register at Early Rates 5 April

**IAAAM 38th Annual Conference
Orlando, FL May 5th to 9th, 2007**

Message from the President

Dear IAAAM,

Your Executive Board has been hard at work prepping for the upcoming conference and meeting. We all look forward to this time of the year. Our meeting is a fantastic experience; a chance to find out what everyone has been up to over the past year, share our successes, dissect our failures, see old friends, and make new ones.

Many thanks go to the board and our hosts for the tremendous effort put forth into making this meeting happen! See you soon in sunny Florida.

William Van Bonn, DVM
Flossmoor IL

REMINDER: the **Discussion Forum** in the members only section of the IAAAM web site is available for finding room mates for the conference and other topics.

MESSAGE FROM OUR CONFERENCE HOST

Dear IAAAM Members,

The April 5th IAAAM Conference registration deadline is fast approaching. The current IAAAM Coronado hotel website will only be available until April 10th. After that you must book any Disney Resort by calling (407) 939-1020. The hotel is completely full on a few dates. At the time of this writing The Caribbean Beach Resort is being used as overflow for attendees needing housing May 5th. There have been several instances of people receiving a message when they try to register saying "no rooms available". If you get this message please either contact the registration staff by pressing the "[Email Registration Assistance](#)" at the bottom of the page or phone 407-939-1020 and they will be happy to accommodate you. Please do this as soon as possible since the rooms tend to go quickly. To register for both the conference and a room at the Coronado Springs Resort at the special conference rate, go to www.disneyurl.com/IAAAM (an optional Coronado Springs Resort registration hyperlink will be imbedded in the conference registration confirmation after you register for the conference). To register for Coronado Springs Resort rooms only, go to www.disneyurl.com/InternationalAssociationforAquaticAnimalMedicine or call (407) 939-1020. At Coronado, you will be centralized to all the Disney Theme Parks as well as SeaWorld of Orlando. The cost of a hotel room at Coronado Springs will be \$155.00 + tax per night (single/double occupancy) with a \$15 per person per night charge for each additional adult (up to four people in a room).

If you prefer to stay at another hotel, reservations at other Disney resorts can be found at www.disneyworld.com. At the time of this letter, prices for various hotel rooms start at \$82 to \$279 per night depending on the resort. Note: **There is no bussing between hotels or resorts!** If you don't stay at the conference hotel, you will need a car. If you prefer not to stay at a Disney resort, please go to your favorite travel planning website, which will give you a plethora of choices to serve all tastes. For those traveling to the Coronado daily parking is free.

TRANSPORTATION: As an additional amenity for those flying into Orlando Regional Airport and staying at any of the Disney Resorts, there is the opportunity to catch the complimentary "Magical Express" from the airport to your hotel. The Magical Express will pick you up at Orlando International Airport, retrieve your checked luggage, and take you to your resort. Your luggage will go straight from the airport to your resort room, leaving no need to hassle with your luggage at baggage claim. When the meeting is over, they will do it all in reverse order. Disney's Magical Express Service is exclusively available when you stay at a Disney Resort hotel. Alternatively, you may take a limo/cab from the airport to the Lake Buena Vista area for a one-way fee of approximately \$50. Information about all transportation from the airport, including the Magical Express, can be found at <http://www.orlandoairports.net>.

WORKSHOPS: Workshops are planned for Saturday, May 5. Topics include Marine Pathology, Manatee Necropsies, and an Ultra Short Course for the American College of Zoological Medicine.

Marine Pathology Workshop 8:00 AM - 4:30 PM

Marine Pathology Workshop 2006 will focus on diseases of marine mammals. The Keynote Speaker will be Dr. Davis Rotstein of the University of Tennessee. The workshop will consist of a keynote presentation and multiple case presentations for audience discussion and review. Cases will all have pathology findings and related discussion topics. Come for a day of investigation,

discussion, and learning! Max number of participants: 50. The Aquatic Pathology workshop will require a separate registration fee to be paid by check. Instructions for payment will be included in your confirmation letter.

ACZM Ultra-Short Course 8:00 AM - 5:00 PM

The ACZM ultra-short course is designed to answer questions about the American College of Zoological Medicine specialty board examination process. It also provides an opportunity for those considering the examination to learn about successful strategies and suggestions for navigating the examination process. The ultra short course will include major review presentations by four ACZM Diplomates on material that examinees may encounter during the examination. The emphasis will be on day 1 (general knowledge) level material but may be from any of the five specialty areas: aquatic, avian, general zoo, herps, or wildlife. One mock quiz will also be included in the day long workshop. Max number of participants unlimited.

Manatee Necropsy Techniques 1:00 PM - 5:00 PM

The purpose of this lab is to introduce participants to Florida manatee necropsy techniques. Topics discussed will include anatomy, physiology, and relevant diseases. Participants will be actively involved in necropsy. Scrubs or coveralls are a must. The rest of the equipment will be available at lab (boots or plastic cover booties, knives, etc). Max number of participants: 12.

ORGANIZED ACTIVITIES: A tentative schedule has been provided and can be viewed on the IAAAM website. An Ice Breaker reception is planned to take place at Disney's Animal Kingdom where a chance to tour behind the scenes at Disney's Animal Programs Vet Clinic and Research Center will also be available. Times may change slightly but this should take place around 7 PM. Bussing will be provided at the hotel.

The "Zoo Day" will take place the afternoon Tuesday, May 8th at SeaWorld of Orlando which will include lunch. After a brief refresher at the hotel, a dinner at Epcot's, The Seas will include a buffet dinner as well as behind the scenes walk-through tour, silent and live auctions and other surprises.

ENTERTAINMENT: We hope you take some time to enjoy the parks while you are here. If you are looking for discounted Park Ticket options please visit www.disneyconventionear.com/aquatic. (Please note that you must have the Macromedia Flash player installed on your computer in order to view the website.). We will also be providing other entertainment ideas in your conference bags.

Other: There will be on-site registration as well as one day registration. One day registration will be \$200 a day (Banquet ticket (Wednesday only) will be additional). We will be accepting credit cards and checks only. We will also be selling IAAAM T-shirts at the conference. Proceeds will benefit the Manatee Rehabilitation Program (www.wildtracks.org). Please join us in supporting this program.

We look forward to seeing you in May!

Sincerely,

M. Andrew Stamper D.V.M., Dipl. A.C.Z.M.
Research Biologist/Clinical Veterinarian
Disney's Animal Programs
Walt Disney World Resorts

Nominations

The Nominations and Awards Committee is comprised of the current and two previous Past-Presidents (Nina Young, Laurie Gage, and Rhonda Patterson). The Committee has proposed the following slate for elections at the Annual Business Meeting in Orlando: for President-Elect, Tom Reidarson; to continue as Secretary, Lisa Mazzaro; to continue as Board Member, Craig Harms. Nominations may also be made from the floor at the business meeting. President Bill Van Bonn will become Past-President, President-Elect Don Stremme will become President, Julie Tepper continues into his second year as Treasurer, Tracy Romano begins her third year as board member for education, and Judy St. Leger begins her second year as board member for membership. Biographies of the nominees follow.

Nomination for President Elect: Dr. Tom Reidarson

Dr. Tom Reidarson is currently Director of Veterinary Services at SeaWorld of California. Tom received his DVM from the University of California, Davis in 1985, completed an internship at the University of Minnesota, and then practiced in southern California focusing on small animals and marine mammals at a local stranding center. He joined SeaWorld in 1991, joined the IAAAM in 1992, and then became board certified in the American College of Zoological Medicine in 1999. Dr. Reidarson has published over 60 articles, abstracts, and book chapters on various aspects of marine mammal medicine and has lectured on the subject at many US, European, and Asian universities and zoological parks. Tom served a term as IAAAM board member for membership, served on the IAAAM excellence awards committee, and was the aquatics chairperson for the ACZM examination committee.

Nomination for Secretary: Dr. Lisa Mazzaro

Dr. Lisa Mazzaro, Assistant Director of Research and Animal Care at Mystic Aquarium, received her BS and MS degrees in Marine Biology from the University of North Carolina, Wilmington and her PhD in Nutrition University of Connecticut in conjunction with Mystic Aquarium. Lisa has been at Mystic for 15 years and has much experience with pinniped and penguin husbandry as well as seal rescue and rehabilitation. Lisa has an Assistant Professor in Residence Appointment in the Department of Animal Science at the University of Connecticut and she serves as the nutrition adviser for the Marine Mammal Taxon Advisory Group. Some of her research accomplishments include nutritional studies on Steller sea lions, the study of iron storage disease in fur seals, vitamin A and E metabolism in pinnipeds, and the lack of a need to supplement salt in the diet of penguins housed in fresh water. Lisa has been a member of IAAAM since 1993, has served on the student liaison committee since 2002 and served as IAAAM Secretary for the past three years.

Nomination for Board Member: Dr. Craig Harms

Dr. Craig Harms is Assistant Professor of Aquatic, Wildlife and Zoo Animal Medicine at North Carolina State University, College of Veterinary Medicine, Center for Marine Sciences and Technology. He received his DVM from Iowa State University in 1989, worked in small animal practice in Alaska for two years, completed an Internship in Exotic, Zoo and Wildlife Medicine at Kansas State University, a residency in Zoological Medicine—Aquatics Emphasis at NCSU, and in 1999 earned his PhD in fish immunology from NCSU. He is board certified by the American College of Zoological Medicine, and currently serves as ACZM Secretary. His clinical and research interests span aquatic invertebrates, fish, sea turtles and marine mammals, making IAAAM his single most useful meeting to attend each year. Craig has been a member of IAAAM since 1999 and has served as Board Member and Newsletter Editor for the past three years.

IAAAM Auction

Be thinking about (and acquiring) items for the live and silent auctions at the IAAAM conference to benefit student programs. This has been a highly successful and entertaining event at recent meetings. Contact Dr. Tracy Romano, Education Board Member, for additional information and offers to assist. (Education@iaaam.org). For those auction items you don't want to carry with you in your luggage, you may ship to ATTN: Allison Corwin (for IAAAM), Disney's Animal Programs, Walt Disney World Resorts, EC TR1. W-251, 2020 North Avenue of the Stars, Lake Buena Vista, FL 32830-1000.

2007 IAAAM STUDENT TRAVEL AWARD WINNERS

This year a total of 18 IAAAM student members applied for an IAAAM Student Travel Award, an enormous increase over last year's application pool of just 7 students!

Travel awards in the amount of \$500 were given to each of the following students:

- **Kate Freeman**, North Carolina State University, Raleigh, North Carolina: "Life on the flip side: characterizing inversion syndrome in captive jellyfish"
- **Jenny Meegan**, Mystic Aquarium and Institute for Exploration, Mystic, Connecticut: "*Brucella* sp. infected bottlenose dolphin (*Tursiops truncatus*) cases in two populations: serologic and clinical evaluations"
- **Michelle Mehalick**, North Carolina State University, Raleigh, North Carolina: "Measurement and *in vitro* inhibition of cholinesterase activity in the serum of eastern hellbenders (*Cryptobranchus alleganiensis*)"
- **Julie Richmond**, University of Connecticut, Storrs, Connecticut: "Somatotropic axis in rehabilitated harbor seals: hormones associated with nutrient utilization and growth"

In addition, travel awards in the amount of \$250 were given to each of these students:

- **M. Reza S. Fard**, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany: "Does pH affect microhabitat preference of the pathogenic diplomonad *Spironucleus salmonis* in the intestine of rainbow trout *Oncorhynchus mykiss*?"
- **Cara Field**, Mystic Aquarium and Institute for Exploration, Mystic, Connecticut: "A comparison of marine-origin *Brucella* seroprevalence between three populations of sea otters (*Enhydra lutris*)"
- **Delphine Sarran**, The Marine Mammal Center, Sausalito, California: "Evaluation of aqueous humor as a surrogate for serum biochemistry in California sea lions (*Zalophus californianus*)"
- **Queeny W. H. Yuen**, The Hong Kong Polytechnic University, Kowloon, Hong Kong: "Longitudinal monitoring of sexual maturity in captive male *Tursiops aduncus*"

Thank you to this year's Student Liaison Committee evaluators: Tonya Clauss, Christine Densmore, Larry Dunn, Tracey Goldstein, Kendal Harr, Elsa Haubold, Charlie Manire, Lisa Mazzaro, Lisa Murphy, Sarah Poynton, and Johanna Sherrill

IAAAM Student Workshop – Sunday, May 6, 2007 at 6:30PM

Emotional Intelligence: When a high “IQ” is not enough

Being an effective contributor in modern organizations is complicated and challenging. On the one hand, we are required to have a high degree of technical skills, while having excellent interpersonal skills as well. The task and people skills associated with organizational success come from very different places. Traditional educational programs have prepared us well for the task side, but often the people part of the equation is neglected. This workshop will help to close that gap. Emotional Intelligence (EQ) as opposed to Intelligence Quota (IQ) concerns itself with the management of our emotions and interpersonal interactions. The key components include:

- Developing the ability to observe our own behavior
- Self Management
- Rapport Building

Presenter: **Robert M. Kaeser, Ph.D.**

Bob has over twenty years of human resource development, consulting, and training experience in a wide variety of settings. He completed his doctorate in Organizational Development and Adult Education at Temple University. He is a long time friend of IAAAM, and has presented student workshops at past conferences.

All Student Conference Attendees: Interested in Another Students-Only Pre-Conference Event This Year?

Due to the success of last year's IAAAM students-only tour and BBQ at the Atlantis, we would like to get an idea of whether or not students would be interested in another trip or get-together during the day on Saturday, May 5th that would end in time to attend the evening icebreaker.

If you'd be interested in spending some time with your fellow students before the official start of the conference, please email Lisa Murphy at murphyLP@vet.upenn.edu, and we'll take it from there based on the responses and suggestions we receive.

Item for business meeting discussion.

In addition to the discussion planned for the business meeting on whether or not IAAAM should or should not make position statements (see November 2006 Newsletter), Past-President Rhonda Patterson, who retires from the Board this year, proposes consideration of support for one night's hotel stay by board members attending the annual meeting in order to cover the extra night required in order to participate in the all-day board meeting. Please feel free to contact any board member ahead of time with your opinion on the point.

The National Marine Fisheries Service (NMFS) announces the availability of a Draft Programmatic Environmental Impact Statement (DPEIS) on the activities of the Marine Mammal Health and Stranding Response Program (MMHSRP).

The MMHSRP encompasses:

- the National Marine Mammal Stranding Network,
- the Marine Mammal Disentanglement Program,
- the Marine Mammal Unusual Mortality Event and Emergency Response Program,
- the Marine Mammal Biomonitoring and Research Program,
- the John H. Prescott Marine Mammal Rescue Assistance Grant Program,
- the National Marine Mammal Tissue and Serum Bank, and
- the MMHSRP Information Management Program.

A copy of the DPEIS and associated information is available at:

<http://www.nmfs.noaa.gov/pr/health/eis.htm>

The DPEIS is available for public comments at this time. Comments may be submitted in writing through April 30, 2007 in one of the following ways:

Email: mmhsrpeis.comments@noaa.gov ATTN.: MMHSRP EIS

Fax: 301-427-2584; ATTN.: MMHSRP EIS

Mail to: Mr. David Cottingham

Chief, Marine Mammal and Sea Turtle Division (F/PR2)

Office of Protected Resources

National Marine Fisheries Service

1315 East-West Highway, Room 13635

Silver Spring, MD 20910

**Report from the Animal Agriculture Liaison Committee of the AVMA
Mike Kinsel, for Roy Yanong**

At the 15-16 February 2007 meeting of the Animal Agriculture Liaison Committee (AALC) of the AVMA, some aquatic animal/medicine issues that were discussed included the following:

- AVMA Legislative Agenda for the 110th Congress advocates support of The National Offshore Aquaculture Act and the Southern Sea Otter Recovery and Research Act, and non-support for the Natural Stock Conservation Act.
- Currently there is no funding in the 2007 budget for FARAD and Minor Use Animal Drugs programs. Whether or not this situation will change in 2008 budget cycle is uncertain. These programs may be of concern to some of the membership.
- The USDA and various state agencies are monitoring the Viral Hemorrhagic Septicemia outbreak in the Great Lakes. The virus is type IVb, most similar to isolates previously identified in the Canadian Maritime Provinces.
 - An emergency rule prohibiting movement of susceptible species was enacted in October 2006 and amended in November 2006. A final rule is expected soon.

The order affects the states of Illinois, Indiana, Michigan, Minnesota, New York, Ohio, Pennsylvania, Wisconsin and the Provinces of Quebec and Ontario.

- Currently interstate movement from above states is restricted to animals for slaughter and human consumption, research or diagnostics, and shipments of animals with known/proven negative disease status, which has eased economic pressure on the aquaculture industry somewhat.
- The known host range for VHS is expanding. Channel catfish are now known as susceptible to infection, though whether active disease occurs is not fully understood.
- The temperature range for viral survival has also expanded; some information indicates survival up to 40C. Given higher temperature tolerance and ability to infect channel catfish, there is some concern in southern states with catfish production units for spread of VHS and the potential for severe economic impact.
- Economic losses have occurred in the Great Lakes states, particularly in baitfish production. Since the emergency orders restrict movement but do not mandate depopulation, there is no government reimbursement for losses.
- The USDA National Aquaculture Program website (<http://www.aphis.usda.gov/vs/aqua>) maintains updated information on VHS and includes the existing emergency order and a list of susceptible species.

Aquatic Veterinarian Group Formed

A new veterinary organization, the Aquatic Veterinary Association, will hold its first Annual General Meeting in conjunction with the American Veterinary Medical Association convention in Washington, DC in July 2007. The organization's mission is "to serve the discipline of aquatic veterinary medicine in enhancing and advancing the science and art of aquatic veterinary medicine, aquatic animal health and welfare, public health, and seafood safety in support of the veterinary profession, aquatic animal industries and other stakeholders." Interim Directors are Peter Merrill (President), Christopher Walster (Secretary), Susan Palic (Treasurer), Julius Tepper (Executive Director), Colin Johnston (Director-at-Large) and Timothy Miller-Morgan (Director-at-Large). For more information, see www.AquaVets.org.

**THE 2007 MARINE MAMMAL MEDICINE
AND PATHOLOGY INTERNSHIP
THE MARINE MAMMAL CENTER
SAUSALITO, CALIFORNIA**

The Marine Mammal Center in collaboration with the University of California (Davis) has an exciting opportunity for a Veterinary Intern to work in our Veterinary Science Department. This is a one-year internship which is scheduled to start in mid-summer 2007, ending in mid-summer 2008. This position requires a DVM degree or equivalent. Previous marine mammal or wildlife experience is preferred. Preference will also be given to individuals who possess at least one year of clinical veterinary experience.

The Marine Mammal Center veterinary staff includes two full-time veterinarians, four veterinary technicians, and a medical laboratory technician. The Veterinary Intern's responsibilities include assisting the veterinary staff in providing medical management of a large number of marine mammals; mostly pinnipeds who are at The Marine Mammal Center for rehabilitation after having been stranded on the California coast due to injury, disease or malnutrition. The Intern will also be responsible for post mortem examinations, collecting samples for various research projects, and record-keeping. A research paper or case report should be completed during the internship.

If interested, please send your resume, cover letter and three professional references to James Lechleitner, Director of Human Resources, The Marine Mammal Center, 1065 Fort Cronkhite, Marin Headlands, Sausalito, CA 94965-2609. The Marine Mammal Center is an Equal Opportunity Employer. Applications must be received by the Marine Mammal Center no later than May 11, 2007.

If you have further questions regarding this position please contact:

Felicia Nutter, DVM, PhD
Staff Veterinarian
The Marine Mammal Center
1065 Fort Cronkhite
Marin Headlands
Sausalito, CA 94965
415-289-7370
nutterf@tmmc.org

Other job opportunities are listed at the IAAAM web site.

Upcoming Meetings and Education Opportunities

- 5 – 9 May 2007 **IAAAM**, Disney, Orlando, Florida.
- 2008 **IAAAM**, Rome, Italy.
- 14 – 18 April 2007 Association of Reptilian and Amphibian Veterinarians 14th Annual Conference, New Orleans, Louisiana. (www.arav.org)
- 20 – 22 April 2007 Special Species Symposium, Cornell University College of Veterinary Medicine, Ithaca, New York. (Brian Stockinger, Special Species Symposium 2007 Chair, bgs9@cornell.edu)
- 2 – 4 May 2007 Flavobacterium 2007, National Conservation Training Center, Shepherdstown, West Virginia
(<http://www.ars.usda.gov/Main/docs.htm?docid=14442>)
- 18 – 22 June 2007 Eastern Fish Health Workshop, Eisenhower Inn and Conference Center, Gettysburg, Pennsylvania. Contact Rocco Cipriano (rcipriano@usgs.gov)
- 9 – 13 July 2007 Fish Histology and Histopathology, National Conservation Training Center, Shepherdstown, West Virginia. (sonia_mumford@fws.gov)
- 31 July – 1 Aug 2007 13 Annual Aquaculture Drug Approval Coordination Workshop, Aquatic Animal Drug Approval Partnership Program, US Fish and Wildlife Service, Bozeman, Montana.
(<http://www.fws.gov/fisheries/aadap/inadworkshop07.htm>)
- 12 – 17 August 2007 Wildlife Disease Association Annual Conference, YMCA of the Rockies, Estes Park, Colorado.
(http://www.wildlifedisease.org/2007_Conference/index.html)
- 17-22 September 2007 Health and colony management of laboratory fish. Mount Desert Island Biological Laboratory, Salisbury Cove, Maine.
(<http://www.mdibl.org/courses/fishhealth07.shtml>)
- 20 – 26 October 2007 American Association of Zoo Veterinarians/ American Association of Wildlife Veterinarians/ Nutritional Advisory Group joint conference, Knoxville, Tennessee. (www.aazv.org or www.aawv.net).
- 22-27 October 2007 Aquaculture Europe 2007. Istanbul, Turkey. European Aquaculture Society.
(<http://www.easonline.org/>)
- 22 – 24 February 2008 Shark Reef 3rd Annual Aquatic Medicine Seminar, Shark Reef at Mandalay Bay, Las Vegas, Nevada (JJewell@mandalaybay.com)

IAAAM Membership Information

<http://www.iaaam.org/memberinfo.htm>

Complete membership information is available at the link above, which includes downloadable new membership/renewal forms to accompany payment.

Membership is available in the following categories:

FULL MEMBER – Persons contributing to the advancement of, or devoting a portion of their professional activities to, aquatic animal medicine practice, research, teaching or management. \$50.00/year, discounted to 40.00/year if paid by 1 July.

STUDENT MEMBER – Students having an interest in veterinary practice, research, husbandry, management or conservation of aquatic animals. Student membership is open to all full-time undergraduate, graduate, veterinary and postdoctoral students enrolled in formal programs at academic and comparable institutions as well as individuals enrolled in full time internships and residencies. \$30.00/year, discounted to 25.00/year if paid by 1 July.

SUSTAINING MEMBER/ ASSOCIATION – Individuals, institutions or associations which make significant financial contributions (\$250 or more) to sustain the IAAAM. (Contact Treasurer for additional information).

LIBRARY/INSTITUTION MEMBER - Libraries and institutions wishing to receive our newsletters and meeting proceedings. \$70.00/year, discounted to 60.00/year if paid by 1 July.

LIFE MEMBER - Upon professional retirement, full members in good standing for a minimum of 10 consecutive years of active membership may be afforded life membership by the Executive Committee upon petition by the member.

HONORARY LIFE MEMBER - Individuals who have made an outstanding contribution to the promotion of aquatic animal medical science and the objectives of the Association.

Payment is due by July 1st, each year. March 1st is the last day to pay and still get the member conference registration rate. If paying by check, be sure to make your check payable to “**IAAAM.**” Please send your completed membership form and payment to:

Judy St. Leger, DVM
SeaWorld of California
500 SeaWorld Drive
San Diego, California 92109

The Newsletter of the International Association for Aquatic Animal Medicine is published four times a year (usually in January, April, August, and November). An annual conference is held every year in the spring and electronic proceedings from that conference are mailed out in June or July to those not in attendance. The International Association for Aquatic Animal Medicine is a nonprofit organization dedicated to advancing the art and science of aquatic animal medicine and health.

Newsletter submissions are welcomed, although the newsletter editor and the IAAAM board reserve the right to edit and/or refuse the publication of any submissions. The deadlines for submissions are December 1, March 1, July 1, and October 1. Submissions should be made in RTF (Rich Text Format), or WORD, without complex formatting. For submissions contact Craig Harms, Newsletter Editor, at NCSU CMAST, 303 College Circle, Morehead City, NC 28557, or by phone at 252-222-6339, or by email (Newsletter@iaaam.org).

For membership information, including dues payment, and address changes contact Judy St. Leger, 500 SeaWorld Drive, San Diego, CA 92109 7904 or by phone at 619-225-4259 or by email (Membersrship@iaaam.org).

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