

Scott R. Cramer

Woods Hole Oceanographic Institution

266 Woods Hole Road / MS #46

office: +1 508 289 2832

email: scramer@whoi.edu / scramer91@gmail.com

Information Services

Woods Hole, MA 02543

mobile: +1 774 836 5012

website: <http://whoi-it.whoi.edu>

PROFESSIONAL ACHIEVEMENTS

Recognized for flexibility, tenacity and leadership while working with IS teams and all affected departments within the Institution to develop, improve and implement IT service management strategies.

PROFESSIONAL EXPERIENCE

2015 – Present	Manager, End User Tech. Services	Information Services / WHOI
2015 – 2015	Information Systems Associate II	Information Services / WHOI
2010 – 2015	Senior Research Assistant II	Biology Department / WHOI
2005 – 2010	Senior Research Assistant I	Biology Department / WHOI
1997 – 2005	Research Assistant II	Biology Department / WHOI

INFORMATION SERVICES (IS)

- Manage end user services through ITIL foundation standards.
- Manage the end user support team, including Help Desk, and coordinate its actions with other teams in IS.
- Monitor trouble ticket processing and other work requests to ensure responsiveness of end user support and the prompt resolution of problems throughout IS.
- Manage mobile devices including phones, mifi, modems, USB peripherals and tablets to ensure their effective and secure use.
- Manage peripherals including multi-function printers, scanners and add-on (e.g. USB) devices.
- Develop, communicate and enforce processes, standards, guidelines and policies that are consistent with the needs of the research, engineering and administrative requirements of the Institution.
- Responsible for financials/budgets, procurement and management of hardware and software associated with the personal computers, mobile devices and peripherals managed by the End User Technology Services (EUTS) team.
- Manage the design, development, and support of computing systems used for data analysis, data integration, data visualization, and content management.
- Manage the purchasing, configuration, and deployment of scientific computing components including software, computers, and laboratory equipment.
- Manage the support of legacy scientific computing components including software, computers, and laboratory equipment.
- Select personal computer hardware and software standards, install, repair and maintain personal computers, including Windows, Apple and Linux systems used at the Institution.
- Diagnose and resolve hardware and software problems including security and network connectivity issues.
- Maintain content management system (CMS) websites.

BIOLOGY DEPARTMENT
COMPUTERIZED SCANNING & IMAGING FACILITY

TECHNICAL

- Provide technical support for biomedical imaging and computed tomography applications and hardware.
- Provide Windows and Apple computer desktop and network support to scientific staff and students.
- Perform routine maintenance and repair of all laboratory computers including; hardware installation; hardware diagnosis and repair; installation of standardized software (i.e. MS Office); installation of third party imaging and scientific software; operating system installation, configuration, and updates; security software configuration and updates.
- Develop and maintain computer system backup architecture for all laboratory computers.
- Establish security benchmarks for all laboratory computers based on CERT, NIST, NSA, and CIS standards.
- Manage the selection and purchasing of all computer software and hardware.
- Manage all computer hardware and software warranties.
- Manage laboratory computer wired and wireless network infrastructure.
- Design, develop, and maintain Drupal content management system (CMS) websites for the Computerized Scanning and Imaging Facility (CSI) (<http://csi.who.edu>).
- Manage all website operations including, site security, SEO, system performance, system updates, system backups, website SQL database administration, and user support.
- CT scanned or assisted with the scanning of over 198 different species of land and marine taxa.
- Produced multiple 2D and 3D digital anatomical reconstructions and animations from DICOM formatted images.
- Provide technical support to CT scanner field technicians during maintenance or repair operations.
- Design, develop, and maintain all laboratory SQL and MS Access databases.
- Responsible for the collection and input of data into laboratory databases.
- Manage the maintenance, repair, and inventory of specialized laboratory equipment including pH testers, surgical equipment, microscopes, computers, digital cameras, audio-visual equipment, band saws, diamond saws, hand tools, and power tools.
- Manage all laboratory image archives (including DICOM images, radiograph films, digital photographs and 35mm slides).
- Performed QCT testing on SAMI2 pH satellite sensors

RESEARCH

- Assisted faculty and students with the collection, processing, and archiving of over 1400 biological samples.
- Performed and/or assisted with over 150 field and laboratory marine animal necropsies.
- Assisted faculty with field sampling techniques including ABR (auditory brainstem response) and AEP (auditory evoked potentials).
- Assisted with the development of specialized surgical techniques used for sample collection (specifically marine animal ear extractions).
- Performed multiple field and laboratory experiments including a several year study with the Office of Naval Research studying the effects of blast trauma on postmortem marine animals.

ADMINISTRATIVE

- Assisted with the preparation and submittal of multiple grant proposals.

- Assisted with the preparation of laboratory PowerPoint presentations.
- Managed all laboratory US Fish and Wildlife (USFWS), National Oceanic and Atmospheric Administration (NOAA), and National Marine Fisheries (NMFS) permits including applications, renewals, and annual reports.
- Coordinated the import and/or export of all marine animal specimens. Managed all laboratory shipping (International and Domestic) and receiving activities including hazardous materials shipping.

ACADEMIC

- Co-authored and/or contributed to over 50 scientific publications, book chapters, and/or technical reports (see bibliography below).
- Provided tours and presentations to over 30 academic institutions.

EDUCATION

1997	BS	Biology / Marine Science	Suffolk University
2001	AS/CSSP	Management Information Systems	Northeastern University

TRAINING AND CERTIFICATIONS

TECHNOLOGY CERTIFICATIONS

ITIL Foundation Certification – IT Service Management	PeopleCert
FileMaker Pro Design and Development	Mac Academy
MAC Troubleshooting and Maintenance	Mac Academy

TECHNOLOGY TRAINING

UNIX Operating System	WHOI
AMIRA 3D Visualization Software	WHOI
Siemens Volume Zoom CT Scanner Workshop	Siemens

OTHER

Hoist and Rigging	WHOI
Class 4 and 5 Forklift Operator	WHOI CERT.
DOT Hazardous Material Security Awareness	WHOI
DOT Uniform Hazardous Waste Manifest Training	WHOI
Chemical Hygiene Safety	WHOI
Radiation Safety Training	WHOI
General Safety Awareness	WHOI
First Aid/CPR First Responder	WHOI
CPR Responder/Oxygen Provider	WHOI
Power Squadron Small Boat Operation	WHOI CERT.
Open Water SCUBA Diver	YMCA CERT.

TECHNICAL PROFICIENCIES

PLATFORMS - Windows 3, 95, 98, 2000, NT, XP, Vista, 7, 8, 10; Macintosh OS 6 to X, Siemens CT Syngo, Linux, Debian, Ubuntu, CentOS

HARDWARE - Dell, Apple, Lenovo, Compaq, Sony, Acer, Asus, Toshiba, HP, Brother, Canon, Epson, Xerox, Desktop/laptop, Workstations, Servers, RAID, Graphics, RAM, PCI, PCIe, NIC, USB, Firewire, BNC, Coaxial, UPS, SSD, HDD, SATA

MEDICAL IMAGING - AMIRA, OSIRIX, Meshlab, STL Visualization, DICOM Viewer, 3D Viewer, DICOMWorks, Merge eFilm, NIH Image, ImageJ, Scion Image, 3D Slicer, Slicer 2K, MedVision, Mimics, Siemens Syngo

WEB DESIGN - Drupal (Content Management System) ([see:http://csi.who.edu](http://csi.who.edu)), WordPress, HTML, HTML5, CSS, PHP, Adobe Dreamweaver, Apache, Tomcat, SQL, Firefox, Internet Explorer, Chrome, Safari, Firebug, SEO, Google Analytics, Google Webmaster Tools, Flash

SOFTWARE - Microsoft Word, Excel, Access, Outlook, Outlook Express, PowerPoint, Publisher, Visual Basic, Project, Visio, Symantec Utilities, Norton Antivirus, Norton SystemWorks, VirusScan, TechTool Pro, Kaleidagraph, Adobe Elements, Adobe Photoshop, Adobe Acrobat, Adobe Illustrator, Adobe PhotoDelux, Adobe Creative Suites, Analyze, Cyberduck, WinSCP, BBedit, Irfanview, Malwarebytes, Dropbox, iTunes, StuffIt Delux, 4Media, EndNote, Kalimages, Thunderbird, Quicktime, WinZip, LaTeX, PCTeX, Parallel Desktop, VirtualBox, Windows Virtual PC, VMWare, LogMeIn, Remote Desktop, VNC, TeamViewer, Skype

Networking - Fetch, Telnet, FTP, SCP, LAN, WAN, TCP/IP, LocalTalk/AppleTalk, Open Transport, Novell, Netware, NAS, Switches, Hubs, Routers, Wireless, Netgear, Cisco, Linksys

LABORATORY SKILLS

CT scanning / medical imaging
Marine animal necropsy and dissection
Digital Microscopy
Specimen collection and preservation
Fume hood operation
Digital Photography

AWARDS AND HONORS

2015	Promotion to Manager, End User Technology Services	WHOI
2010	Promotion to Senior Research Assistant II	WHOI
2008	Ten Year Service Recognition	WHOI
2005	Promotion to Senior Research Assistant I	WHOI
1997	Volunteer Award	New England Aquarium
1996	Volunteer Award	New England Aquarium
1996	InterFuture Scholar	Suffolk University
1995	Beta Beta Beta Biological Honor Society	Suffolk University

MEMBERSHIPS/COMMITTEES

2010 - 2012	IEEE Computer Society	
2005 – 2014	Society for Marine Mammology (SMM)	
1997 – present	InterFuture Board of Trustees/Exec. Comm.	Suffolk University
2009 – 2011	Graded and Marine Personnel Committee	WHOI
2005	Departmental Chair Selection Committee	WHOI
1997 – 2000	Field Volunteer	New England Aquarium

BIBLIOGRAPHY

Co-Authored Refereed Journal Publications

- 2014 Ketten DR, Simmons J, Riquimaroux H, **Cramer S**, Arruda J. Twists and turns, in cochlear anatomy: curvatures related to infra vs ultrasonic hearing. *J Acoust Soc Am* 135(4):2266.
- 2013 Williams SR, Dennison S, Dunnigan B, Moore B, Zagzebski K, Ketten DR, **Cramer S**, Arruda J. Diagnosis and management of intestinal partial obstruction in a loggerhead turtle (*Caretta caretta*). *J Zoo Wildl Med.* 44(2):457-461. doi: <http://dx.doi.org/10.1638/2011-0179R1.1>
- 2012 Ketten DR, Simmons J, Riquimaroux H, **Cramer S**, Arruda J. Critical cranial and cochlear structures in echolocators. In: Proceedings of the Institute of Acoustics 11th European Conference on Underwater Acoustics (ECUA 2012); Edinburgh. St. Albans Hertfordshire: Institute of Acoustics. p. 572-577.
- 2012 Ketten DR, Mooney TA, **Cramer S**, Arruda J. Evidence of hearing loss in marine mammals via Auditory Evoked Potentials (AEP), Otoacoustic Emissions (OAE), and Computerized Tomography (CT). In: Proceedings of the Institute of Acoustics 11th European Conference on Underwater Acoustics (ECUA 2012); Edinburgh. St. Albans Hertfordshire: Institute of Acoustics. p. 717-720.
- 2012 Yamato M, Ketten DR, Arruda J, **Cramer S**, Moore K. The auditory anatomy of the minke whale (*Balaenoptera acutorostrata*): a potential fatty sound reception pathway in a baleen whale. *Anat Rec* 295(6):991-998.
- 2012 Ketten DR, Simmons J, Riquimaroux H, **Cramer S**, Arruda J. Cochlear structural variants in echolocators. *J Acoust Soc Am* 131(4):3423.
- 2011 Moore MJ, Hammar T, Arruda J, **Cramer S**, Dennison S, Montie E, Fahlman A. Hyperbaric computed tomographic measurement of lung compression in seals and dolphins. *J Exp Biol* 214(14):2390-2397.
- 2008 Ketten DR, Arruda J, O'Malley J, **Cramer S**, Hammock J. Non anthropogenic deafness in marine mammals: hearing that is going, going, gone. *J Acoust Soc Am* 124(4):2505.
- 2008 Yamato M, Ketten DR, Arruda J, **Cramer S**. Biomechanical and structural modeling of hearing in baleen whales. *Bioacoustics* 17(1-3):100-102.

- 2004 Ketten DR, Rowles T, **Cramer** S, O'Malley J, Arruda J, Evans P. Cranial trauma in beaked whales. In: Evans PG, Miller LA. editors. Proceedings of the Workshop on Active Sonar and Cetaceans (ECSN) 17th Annual European Cetacean Society Conference; Gran Canaria. European Cetacean Society. p. 21-27.

Co-Authored Book Chapters/Technical Reports

- 2008 Ketten DR, **Cramer** S, Arruda J. A manual for the removal, fixation and preservation of cetacean ears. Woods Hole (MA): Woods Hole Oceanographic Institution. Report No. WHOI-2008-03.
- 2007 Arruda J, Costidis A, **Cramer**, S, Ketten DR, McLellan W, Montie EW, Moore M, Rommel S. In: Young, N. editor. Odontocete salvage, necropsy, ear extraction, and imaging protocols. ONR/NOAA Fisheries Report supported by Office of Naval Research, Contract N00014-06-1-0298.
- 2006 Ketten, D. R., Fischer, I., **Cramer**, S., Bartol, S. M., and O' Malley, J. Water, fats, and acoustic impedance: soft tissue adaptations for underwater hearing in turtles, seabirds and marine mammals. 23rd International Symposium on Sea Turtle Biology and Conservation, Living with Sea Turtles, NOAA Technical Report, pp. 162.

Authored Invited Lectures/Papers

- 2008 **Cramer**, S. Computerized Tomography (CT) techniques for analysis of trauma and disease in marine mammals. Volunteer Training Review, Cape Cod Stranding Network (CCSN/IFAW), Yarmouth Port, MA.

Co-Authored Invited Lectures/Papers

- 2014 Ketten, D.R. J. Arruda, S. **Cramer**, A. Zosuls, and D. Mountain. Biomechanical Modeling of Hearing in Whales: Implications for Underwater Acoustic Impacts. Keynote Address, Marine Megafauna Symposium, Australian Marine Science Association (AMSA 2014), Canberra, Australia.
- 2014 Ketten, D.R., S. **Cramer**, J. Arruda and D. C. Mountain. How Modeling of Auditory Systems Can Provide Hearing Estimates for Whales. SOLAMAC (Sociedad Latinoamericana de Especialistas de Mamíferos Acuáticos), XVI Reunión de expertos en Mamíferos Acuáticos de América del Sur, Simposio sobre el impacto de las prospecciones sísmicas en los mamíferos marinos y sus ecosistemas, Cartagena, Colombia.
- 2014 Ketten, D.R., J. Shoshani, J. Arruda, S. **Cramer**, A. Zosuls, D. C. Mountain, A. M. Simmons, J. Simmons, and H. Riquimaroux. Extreme Hearing: Functional analyses of land and marine micro to mega ears. 1st Annual Meeting of the Society of Bioacoustics, 19th Auditory Research Forum (ARF2014), Lake Biwa, Japan. 2012 Ketten, D.R., T.A. Mooney, S. **Cramer**, J. Arruda. Evidence of hearing loss in marine mammals via Auditory Evoked Potentials (AEP), Otoacoustic Emissions (OAE), and Computerized Tomography (CT). Hearing Physiology Special Session 11th European Conference on Underwater Acoustics (ECUA 2012), Edinburgh, UK.

- 2012 Shorter, K. A., Hurst, T., Johnson, M., **Cramer**, S., Ketten, D. R., Moore, M. Suction and skin: the effect of vacuum loading on the skin of a common dolphin. 2012 American Society of Biomechanics Conference, Gainesville, FL.
- 2012 Ketten, D.R., J. Simmons, H. Riquimaroux, S. **Cramer**, J. Arruda. Cochlear Structural Variants in Echolocators. Special Session on Biosonar: Joint meeting: Acoustical Society of America (ASA), Acoustical Society of China (ASC), Western Pacific Acoustics Conference (WESPAC) and the Hong Kong Institute of Acoustics (HKIOA).
- 2012 Ketten, D.R., J. Simmons, H. Riquimaroux, S. **Cramer**, J. Arruda. Critical Cranial and Cochlear Structures in Echolocators. Biomimetics Special Session 11th European Conference on Underwater Acoustics (ECUA 2012), Edinburgh, UK.
- 2011 Yamato, M., Ketten D. R., Arruda J. J., **Cramer** S. R., and Moore, K. The auditory anatomy of the Minke Whale (*Balaenoptera acutorostrata*): Insights into potential sound reception pathways in a baleen whale. 19th Biennial Conference on the Biology of Marine Mammals, 11/2011, Volume Abstracts, Tampa, FL, p. 319.
- 2011 Ketten, D. R., Mooney A. T., Williams R. C., Matassa K., Patchett K., Arruda J. J., and **Cramer** S. R. Hearing loss in Harbor Seals: Differential diagnoses of conductive and sensorineural losses via Auditory Evoked Potentials (AEP), Otoacoustic Emissions (OAE), and Computerized Tomography (CT). 19th Biennial Conference on the Biology of Marine Mammals, 11/2011, Tampa, FL, p.156.
- 2010 Ketten, D. R., J. Arruda, S. **Cramer**, and M. Dunn Cochlear morphometrics from CT: length, insertion, and neuronal distribution estimates. Objective Measures in Auditory Implants, 6th International Symposium, St. Louis, MO.
- 2008 Ketten, D. R., J. Arruda, J. O'Malley, S. **Cramer**, and J. Hammock. Non-Anthropogenic deafness in marine mammals: Hearing that is going, going, gone. Invited paper Acoustical Society of America, Miami, FL.
- 2006 Ketten, D. R., Arruda, J., **Cramer**, S. R., Yamato, M., O' Malley, J., Manoussaki, D., Dimitriadis, E. K., Chadwick, R. S., Shoshani, J., and Meng, J. Great ears: functional comparisons of land and marine leviathan ears. 152nd Meeting of the Acoustical Society of America (4th joint meeting of the Acoustical Society of America and the Acoustical Society of Japan), Honolulu, HI.
- 2005 Ketten, D. R., Shoshani, J., Domning, D. P., O' Malley, J., Arruda, J., **Cramer**, S. R., O'Connell, C., and Meng, J. Great ears: functional comparisons of land and marine leviathan auditory systems. 9th International Mammalogical Congress. Sapporo, Japan.

Co-Authored Short Communications: Refereed Meetings

- 2014 Ketten, D.R.; Simmons, J.; Riquimaroux, H., **Cramer**, S.; Arruda, J. Twists and Turns, in Cochlear Anatomy: Curvatures related to Infra vs Ultrasonic Hearing. Acoustical Society of America (ASA), Providence, RI USA.
- 2013 Arruda, J., Ketten D.R., Williams, C.R., **Cramer** S.R., Zagzebski, K.A., Shaffer, K.A. A CT Case Study: The Use of Computerized Tomography as a Diagnostic and Surgical Planning Tool in the Rehabilitation of Harbor Seals. 20th Biennial Conference on the Biology of Marine Mammals. Dunedin, NZ.

- 2013 Ketten, DR, Arruda, JA; **Cramer**, SR; Zosuls, A, Mountain, D. Biomechanical Evidence of Low to Infrasonic Hearing in Mysticetes: Implications for Impacts. Ettore Majorana Foundation and Centre for Scientific Culture School of Ethology - 30th workshop. Erice, Sicily.
- 2013 Ketten, Darlene R.; Simmons, James; Riquimaroux, Hiroshi; **Cramer**, Scott; Arruda, Julie; Mountain, David C.; Zosuls, Aleks; Tubelli, Andrew. Auditory Structures that Impact Sensitivity and Acuity in Cetaceans: Location, Location, Location. 20th Biennial Conference on the Biology of Marine Mammals, Dunedin, NZ.
- 2013 Arruda, Julie A.; Ketten, Darlene; Williams, Charles Rogers; **Cramer**, Scott R.; Zagzebski, Kathryn A; Shaffer, Kate E. A CT Case Study: The Use of Computerized Tomography as a Diagnostic and Surgical Planning Tool in the Rehabilitation of Harbor Seals. 20th Biennial Conference on the Biology of Marine Mammals, Dunedin, NZ.
- 2012 Shorter, K. A., T. Hurst, M. Johnson, S. **Cramer**, D. Ketten, M. Moore. Suction and skin: the effect of vacuum loading on the skin of a common dolphin. American Society of Biomechanics, Abstracts, 189-190.
- 2011 Ketten, D.R., Shoshani, J., Arruda, J., **Cramer**, S., Reidenberg, J., Yamato, M. Great ears: Functional comparisons of land and marine leviathan ears, Tetrapod Evolution: Return to Water, San Diego, CA.
- 2010 Ketten, D. R., Arruda, J., S. **Cramer**, Dunn, M., and Ridgway, S. Mature mammal hearing loss: a natural experiment in Presbycusis. Association for Research in Otolaryngology, Anaheim, CA.
- 2011 Yamato, M., Ketten D. R., Arruda J. J., **Cramer** S. R., & Moore K. The auditory anatomy of the Minke Whale (*Balaenoptera acutorostrata*): Insights into potential sound reception Ketten, D.R. – 35 pathways in a baleen whale. 19th Biennial Conference on the Biology of Marine Mammals. Abstracts, 319.
- 2009 Yamato, M., T.A. Mooney, D. R. Ketten, S. **Cramer**, and J. Arruda. Auditory anatomy and sound reception in the beluga whale (*Delphinapterus leucas*) compared to the Bottlenose Dolphin (*Tursiops truncatus*). Office of Naval Research, Marine Mammals and Oceanography Program Review, Alexandria, VA.
- 2009 Yamato, M., T.A. Mooney, D. R. Ketten, S. **Cramer**, and J. Arruda. Auditory anatomy and sound reception in the beluga whale (*Delphinapterus leucas*) compared to the Bottlenose Dolphin (*Tursiops truncatus*). 18th Biennial Conference on the Biology of Marine Mammals, Quebec City, Quebec, Canada.
- 2009 Moore, M. J., Arruda, J., **Cramer**, S. R, Hammar, T., Ketten, D. R., Moore, C. D., Fahlman, A. and Dennison, S. E. Hyperbaric computed tomography: a novel tool to quantify the behavior of air-filled structures and gas emboli in cetacean and pinniped carcasses under a range of pressures. 18th Biennial Conference on the Biology of Marine Mammals, Quebec City, Quebec.

- 2009 Arruda, J., Ketten, D. R., Yamato, M., and **Cramer**, S. R. 3D visualization of the odontocete melon using computerized tomography. 18th Biennial Conference on the Biology of Marine Mammals, Quebec City, Quebec City, Quebec, Canada.
- 2009 Yamato, M., D.R. Ketten, H. Koopman, G. Feijoo, J. Arruda, S. **Cramer**, and S. Sharp Hearing in baleen whales: Learning from stranded animals. Northeast Regional Stranding Conference (NERSC), Salem, MA
- 2009 Arruda, J., J.S. Reidenberg, S. **Cramer**, D.R. Ketten, and J.T. Laitman. "Lop-sided" odontocetes: A CT investigation of structural and functional asymmetry in the hyoid, laryngeal, and pharyngeal regions, Northeast Regional Stranding Conference (NERSC), Salem, MA.
- 2008 Ketten, D. R, Arruda, J., O' Malley, J., and **Cramer**, S. R. Non-anthropogenic deafness in marine mammals: hearing that is going, going, gone. 155th Meeting of the Acoustical Society of America. Paris, France.
- 2008 Ketten, D. R., **Cramer**, S., Arruda, J., Prah, S., Williams, S. R., and Dunnigan, B. CT and MRI techniques for analysis of trauma and disease in marine mammals. Florida Marine Mammal Health Conference, Gainesville, FL.
- 2007 Reidenberg, J. S., Arruda, J., **Cramer**, S. R., Ketten, D. R., and Laitman, J. T. Crooked crania and lop-sided larynges: new insights from CT imaging of the cranio-cervical region in odontocetes (toothed whales, dolphins, porpoises). Meeting of the American Society of Anatomists. San Diego, CA.
- 2007 Yamato, M., Ketten, D. R., Arruda, J., and **Cramer**, S. R. Anatomical studies of mysticete hearing: a key to understanding how and what whales hear. ASLO.
- 2007 Yamato, M., Ketten, D. R., Arruda, J., and **Cramer**, S. R. Anatomical studies of mysticete hearing: a key to understanding how and what whales hear. Conference on The Effects of Noise on Aquatic Life, Nyborg, Denmark.
- 2007 Yamato, M., Ketten, D. R., Arruda, J., and **Cramer**, S. Anatomical Studies of Mysticete hearing: a key to understanding how and what whales hear. American Society of Limnology and Oceanography Aquatic Sciences Meeting, Santa Fe, NM.
- 2007 Yamato, M., Ketten, D. R., Arruda, J., and **Cramer**, S. Biomechanical and structural modeling of hearing in baleen whales. 15th Annual Southeast and Mid-Atlantic Marine Mammal Symposium (SEAMAMMS), Beaufort, NC.
- 2007 Yamato, M., Ketten, D. R., Arruda, J., and **Cramer**, S. Biomechanical and structural modeling of hearing in baleen whales. 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa.
- 2007 Ketten, D. R., Arruda, J., **Cramer**, S. R., Yamato, M., Zosuls, A., Mountain, D., Chadwick, R. S., Dimitriadis, E. K., Shoshani, J., and O' Connell-Rodwell, C. How low can they go: functional analyses of the largest land and marine mammal ears. 17th Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa.

- 2007 Arruda, J., Reidenberg, J. S., **Cramer**, S., Ketten, D. R., and Laitman, J. T. "Lopsided" odontocetes: a CT investigation of structural and functional asymmetry in the upper respiratory tract. 17th Biennial Conference on the Biology of Marine Mammals. Cape Town, South Africa.
- 2006 Ketten, D. R., **Cramer**, S. R., Arruda, J., Brooks, L., O' Malley, J., Reidenberg, J., McCall, S. A., Craig, J., and Rye, K. Experimental measures of blast trauma in sea turtles. Symposium on Environmental Consequences of Underwater Sound (ECOUS), Office of Naval Research, Arlington, VA.
- 2006 Ketten, D. R., Arruda, J., **Cramer**, S., Yamato, M., O' Malley, J., Manoussaki, D., Dimitriadis, E. K., Chadwick, R. S., Shoshani, J., and Meng, J. Great ears: functional comparisons of land and marine leviathan ears. , vol. 120, no. 5, pt. 2, pp. 3265.
- 2005 Norman, S. A., Raverty, S., Ketten, D. R., McLellan, W. A., Pabst, A., Gaydos, J. K., Fleetwood, M., Cox, T., Norberg, B., Barre, L., Hanson, B., **Cramer**, S. R., and Jeffries, S. Multidisciplinary investigation of harbor porpoises (*Phocoena phocoena*) in Washington State with an assessment of acoustic trauma as a contributory factor. 16th Biennial Conference on the Biology of Marine Mammals, San Diego, CA.
- 2005 Norman, S. A., Raverty, S., Ketten, D. R., McLellan, W. A., Pabst, A., Gaydos, J. K., Fleetwood, M., Cox, T., Norberg, B., Barre, L., Hanson, B., **Cramer**, S. R., and Jeffries, S. Multidisciplinary investigation of harbor porpoises (*Phocoena phocoena*) in Washington state with an assessment of acoustic trauma as a contributory factor. 36th Annual Conference of the International Association for Aquatic Animal Medicine Seward, AL.
- 2005 Ketten, D., Arruda, J., **Cramer**, S. R., O' Malley, J., Reidenberg, J., McCall, S., and Craig, J. Experimental measures of blast trauma in marine animals. Environmental Consequences of Underwater Sound (ECOUS). NOPP-ONR Review, Arlington, VA.
- 2004 Raverty, S, Norman, S., Fleetwood, M., Gaydos, J., Ketten, D. R., Pabst, A., McLellan, W., Barre, L., Hanson, B., Jeffries, S., Lambourn, D., **Cramer**, S. R., Cox, T., and Norberg, B. Pathologic findings in harbor porpoises (*Phocoena phocoena*) stranded in Washington state 2 May to 2 June 2003 coincident with the mid-frequency sonar exercises by the USS Shoup. American College of Veterinary Pathology.
- 2004 Montie, E., Moore, M., Ketten, D. R., Arruda, J., **Cramer**, S., Fischer, I., Touhey, K., Patchett, K., Bogomolni, A., Lentell, B., Sharp, B., Early, G., and Hahn, M. Anatomy, three-dimensional reconstructions, and volume estimation of the brain of the Atlantic White-sided Dolphin (*Lagenorhynchus acutus*) from magnetic resonance images. NE Stranding Conference.2003 Ketten, D. R., Rowles, T., **Cramer**, S. R., O' Malley, J., Arruda, J., and Evans, P. Cranial trauma in beaked whales. Proceedings of the Workshop on Active Sonar and Cetaceans, ECSN, no. 42, pp. 21-27.
- 2003 Ketten, D. R., Fischer, I., **Cramer**, S. R., Bartol, S. M., and O' Malley, J. Water, fats, and acoustic impedance: soft tissue adaptations for underwater hearing in turtles, seabirds and marine mammals. 23rd International Symposium on Sea Turtle Biology and Conservation, Kuala Lumpur.

- 2003 Ketten, D. R., Arruda, J., **Cramer**, S. R., O' Malley, J., Reidenberg, J., McCall, S., Naples, V., and Craig, J. Experimental measures of blast trauma in marine mammals. Environmental Consequences of Underwater Sound (ECOUS) Workshop, San Antonio, TX.
- 2001 Ketten, D. R., **Cramer**, S. R., O' Malley, J., Fischer, I., Reidenberg, J., Naples, V., McCall, S., Craig, J., Tussing, R., Rye, K., Lewis, W., Potter, C., Ososky, J., and Merigo, C. Experimental measures of blast trauma in marine mammals. 13th Biennial Conference on the Biology of Marine Mammals. Maui, HI.

Authored Poster Presentations

- 2013 **Cramer**, Scott R.; Ketten, Darlene R.; Arruda, Julie A.; Manchester, Randy; Niemeyer, Misty. Centralizing Marine Mammal Stranding Data: A Web-based Content Management System. 20th Biennial Conference on the Biology of Marine Mammals, Dunedin, NZ.
- 2009 **Cramer**, S. R., Ketten, D. R., Arruda, J., Williams, S. R., Yamato, M., Merigo, C., Touhey, K., and Mooney, A. Computed Tomography (CT): a non-invasive technique for assessing trauma and disease in stranded marine mammals. 18th Biennial Conference on the Biology of Marine Mammals, Quebec City, Quebec.
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