



The Marine  
Mammal Center®

# 2009 ANNUAL REPORT

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# A YEAR OF FIRSTS!



My term as Chairman of the Board of Directors these past four years has been greatly enhanced by the Center's wonderful community, including the fine board, dedicated staff and volunteers, and by a clear mission and a focus on being the best at what we do. If one has to end one's final year as Chairman of such a tremendous organization, I'd say I did it with a bang in 2009! What a year! We opened a brand new state-of-the-art hospital, one that we have all dreamed of for more than a decade. Our staff and volunteers now have professional, well-designed, and inspiring facilities to support their work. Our patients have the best hospital of its kind in the country in which to recover, and the facility presents an opportunity for the public to learn and see our work in action. Education, after all, is one of the most important elements of our mission, as we seek to expand knowledge about marine mammals and inspire their conservation and that of their ocean home.

In 2009, we achieved many firsts. Our volunteers and staff admitted over 1,700 marine mammals, more than double our yearly average and a first in our 34-year-history. Rescuing this large number of animals (many were malnourished as a result of a changing environment that affected the food chain) certainly put a strain on our staff and volunteer resources, our equipment, and finances, yet we persevered and made sure every animal received the medical care it needed. And, we had the new facility in which to care for them. Our science team documented medical conditions that continue to give us insights into seal and sea lion health (about which you'll read here) and they lent their expertise in animal care and science to colleagues and visiting veterinarians from around the world. Additionally, our volunteers put in an astonishing 104,000 hours of services, valued at \$1,200,000 (based on California minimum wage) that were received during the fiscal year ending September 30, 2009. We also saw more than 50,000 visitors come to our new facility within a six month period—for me, that means that 50,000 people were touched by our stories and able to hear our message loud and clear. It was definitely a year of dramatic firsts for us!

While the economy was reeling from the recession in 2009, the Center had the foresight to make appropriate budgetary adjustments and ride out that storm, and in the process, developed a stronger analysis of our finances and created a revenue model that I believe will serve us well into 2010 and beyond. We finished the year positively with revenue for the fiscal year ending September 30, 2009 of \$6.5 million. A net deficit of \$.5 million relates primarily to increased depreciation from our new Sausalito facility. It is the passion for our work that is shared by our staff, volunteers, board and the public at large, that validates something I've always known – The Marine Mammal Center's mission has meaning to all of us, and it drives us forward to not only persevere, but to thrive, even in the face of daunting challenges.

My last year as Chairman has been an incredible experience full of hard, yet rewarding work and personal fulfillment. Our success was only possible thanks to the talented team with whom I worked and friends whom I will cherish for the rest of my life. As my colleague on the board, Karen Johnson-McKewan, takes the reins as the Center's new Chairwoman, I feel confident that the Center will continue to flourish and grow as a leader in marine mammal care, inspire us to care about the oceans and its inhabitants, and motivate us to take action to ensure their conservation. Thank you for all that you do to support this wonderful organization and its mission, and for caring about the oceans we all treasure.

Best wishes,

A handwritten signature in cursive script that reads "Merrill L. Magowan".

Merrill L. Magowan

Chairman of the Board, The Marine Mammal Center



The key to understanding marine mammal health



SCIENCE



### Controlling the Rise of Antibiotic Resistance in E-Coli in from Elephant Seals

In this study, the Center aimed to determine if antimicrobial drug use increases resistance of E-coli in wild northern elephant seals treated in rehabilitation and, if so, identify the risk factors involved. The results provided evidence that increased levels of hygiene and cautious or judicious use of antimicrobial therapy might be important in the rehabilitation of wild animals to prevent a rise in the prevalence of antimicrobial resistant bacteria.

### Discovering More about Degenerative Cardiomyopathy and Domoic Acid Toxicity in California Sea Lions

Heart pathology was examined in California sea lions dying within 0-15 days of admittance to the Center, subsequent to acute domoic acid toxicity and was hypothesized to result from an indirect, centrally mediated (brain-heart) mechanism of catecholamine surges associated with seizures or from a direct mechanism due to engagement of domoic acid receptors that may exist in the heart. Researchers looked closely at degenerative cardiomyopathy in California sea lions and found that it represents another syndrome beyond central neurologic disease associated with exposure to domoic acid and may contribute to morbidity and mortality.

### Understanding the Sea Lion Brain Using Magnetic Resonance Imaging (MRI)

Although the California sea lion has been a focal point for many types of studies in marine mammals, the scientific community lacks a non-invasive approach to investigate the anatomy and size of brain structures in this species and other free-ranging, live marine mammals. This study provides the first anatomically labeled, MRI-based atlas derived from a live, marine mammal: the California sea lion. In addition, the study provided 3-D reconstructions and volumes of cerebrospinal fluid, cerebral ventricles, total white matter and gray matter, cerebral hemispheres, cerebellum and brainstem combined, and hippocampal structures all derived from MRI. These measures are the first to be determined for any pinniped species. In California sea lions, this information can be used not only to relate cognitive and sensory capabilities to brain size, but also to research the neurological effects of exposure to domoic acid.

## The Role of Domoic Acid in Abortion and Premature Parturition of California Sea Lions

In this study, the Center's scientists wanted to understand whether domoic acid plays a role in reproductive failure in sea lion rookeries. Sixty-seven aborted and live-born premature pups were sampled on San Miguel Island to investigate the causes of reproductive failure. Analyses included domoic acid, contaminant and infectious disease testing, and histologic examination. Domoic acid was detected in sea lion feces and in 17% of pup samples tested. Such results suggest that domoic acid contributes to reproductive failure in California sea lion rookeries.

## Sea lions as True Indicators of Marine Environmental Health

One of the significant aspects of The Marine Mammal Center's work is investigating health issues that not only affect our marine mammal patients, but may also affect humans. A paper co-authored by the Center, found that some pneumonias and abscesses in California sea lions detected during post mortem examinations at the Center were caused by the bacteria *Klebsiella pneumoniae* which is known to cause infections in humans. While pneumonia in sea lions is not unusual, the fact that a zoonotic pathogen in the marine environment was at the root of these particular cases indicates that humans, who share the coastal environment with marine mammals, could pick up the same bacteria. This study was supported by the John H. Prescott Marine Mammal Rescue Assistance Grant program and the National Oceanic Atmospheric Administration's Oceans and Human Health Initiative.

## Marine Pollution and Debris is a Growing Problem

It's no surprise that marine debris is one of the biggest problems affecting the ocean and marine mammals. In 2009, the Center contributed to two reports on the subject. The first looked at the growing number of fishing gear-related injuries to marine wildlife and revealed that those injuries sustained by California sea lions most commonly occurred during the summer months. An estimated 267 marine species have been affected by entanglement in or ingestion of fishing gear. This has been identified as a major cause of morbidity and mortality in some populations. Juvenile pinnipeds were more commonly injured than adults. Male pinnipeds were twice as likely to be injured as females. Seventy percent of pinniped injury cases were successfully rehabilitated and released. The second report The Marine Mammal Center collaborated on involved entanglement of marine mammals in central California and along the north-west coast. Within a four-year period, 454 entanglements occurred on birds and marine mammals in this region. These cases were documented in live animals and in carcasses for 31 bird species and 9 marine mammal species. The most frequently entangled species were common murrelets, western gulls and California sea lions. The entanglement materials were primarily fishing-related. At the Center, approximately 11-percent of the patients are admitted as a result of an entanglement or marine debris-related injury.

## Annual Wildlife Conference

In August, The Marine Mammal Center's Director of Veterinary Science, Dr. Frances Gulland, marine biologist, Denise Greig, research associate, Liz Wheeler, and veterinary intern, Nicola Pussini, participated in the 58<sup>th</sup> Annual International Conference of the Wildlife Disease Association in Washington State. The team led marine mammal oriented workshops and Greig presented a paper on pathogenic bacteria in the feces of stranded and wild harbor seals – an ongoing study at the Center.

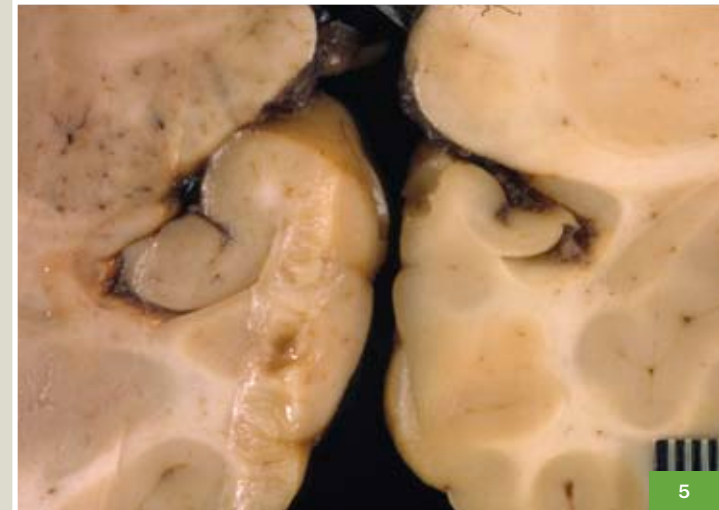
## SCIENCE HIGHLIGHTS

- Staff Veterinarian, Dr. Bill Van Bonn traveled on invitation to the Netherlands to provide anesthesia support to the first successful dolphin general anesthesia in Europe.
- Implanted the first EKG 'loop recorder' into a California sea lion - the first to the team's knowledge in any living marine mammal. The technology allows us to monitor heart activity continuously for up to three years and will be used to better understand cardiac effects of domoic acid.
- Fitted two California sea lions with orthopedic external fixators to fuse infected carpal joints. Confirmed their normal activities following release via satellite telemetry tags.
- Acquired a state-of-the-art digital diagnostic radiographic imaging system to replace the Center's obsolete 'wet film' system. The veterinary team's diagnostic capabilities are already being enhanced.

Previous page, clockwise: A California sea lion patient recovering after a nasty entanglement was removed from his head. Veterinarians perform surgery to repair a broken flipper. Volunteers examine a sea lion brain to find indications of seizure activity.

This page, left-to-right: Domoic acid as seen under a microscope. A cross sample of two California sea lion brains; the one on left healthy, the one on the right diseased with long-term effects of domoic acid toxicosis.

To learn more about domoic acid and other studies at the Center, click here: [www.marinemammalcenter.org/science/top-research-projects/domoic-acid-toxicity.html](http://www.marinemammalcenter.org/science/top-research-projects/domoic-acid-toxicity.html)



## Conference Proceedings

- Dennison, S., Moore, M., Fleetwood, M., Forrest, L. and **Gulland, F.M.** 2009. Application of advanced diagnostic imaging modalities in marine mammal medicine and pathology: three interesting cases. Proceedings of the 40th Annual Conference of the International Association of Aquatic Animal Medicine, May 2-7, San Antonio, Texas
- Fei Fan Ng, T., Manire, C., Suedmeyer, W., Borrowman, K., Langer, T., **Wheeler, E., Gulland, F.**, Ehrhart, L., and Breitbart, M. 2009. Discovering Novel Animal Viruses Using Viral Metagenomics. Proceedings of the 40th Annual Conference of the International Association of Aquatic Animal Medicine, May 2-7, San Antonio, Texas.
- Ferrante, J.A., Arthur, J.M., **Gulland, F.M.**, Hill, E., Almeida, J., and Janech, M. G. 2009. Serum cytokines as predictors of domoic acid exposure in California sea lions (*Zalophus californianus*). Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.
- Flanary, J.R., Reiner, J.L., Kucklick, J.R., **Gulland, F.M.**, and Becker, P.R. Perfluorinated compounds in plasma, liver and kidney of Northern fur seals (*Callorhinus ursinus*). Proceedings of the Society of Environmental Toxicology and Chemistry 30th annual meeting in North America, November 19-23, New Orleans, LA.
- Greig, D.J., Gulland, F.M.**, and Hall, A.J. 2009. Correlates of survival in harbor seal pups from central California, USA. Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.
- Greig, D.J.**, Hall, A. J., **Rios, C.A.**, and **Gulland, F.M.** 2009. Hematology and serum chemistry in stranded and wild caught harbor seals in central California: reference ranges, prognosis and explanatory factors. Proceedings of the 40th Annual Conference of the International Association of Aquatic Animal Medicine, May 2-7, San Antonio, Texas.
- Greig, D.J., Gulland, F.M., Wheeler, E.A.**, Jang, S., and Hall, A.J. 2009. Prevalence of potentially pathogenic bacteria in the feces of stranded and wild harbor seals (*Phoca vitulina*) in central California. Proceedings of the 58th Annual International Conference of the Wildlife Disease Association, August 2-7, Blaine, Washington.
- Greig, D.J., Gulland, F.M.**, Ylitalo, G., Yanagida, G., Hall, A.J., Survival and blubber contaminant concentrations of PCB's, DDT's, and PBDE's in harbor seal pups (*Phoca vitulina*) from San Francisco Bay, CA. Proceedings of the Society of Environmental Toxicology and Chemistry 30th annual meeting in North America, November 19-23, New Orleans, LA.
- Gulland, F.M.** 2009. Causes of marine mammal strandings along the California, USA, coast. National Science Museum, September 15, Tokyo, Japan.
- Gulland, F.M.** and **Wheeler, E.** 2009. Field investigations of wildlife mortalities. Workshop. Proceedings of the 58th Annual International Conference of the Wildlife Disease Association, August 2-7, Blaine, Washington.
- Gulland, F.M.** 2009. Hot topics in marine mammals. Workshop. Proceedings of the 58th Annual International Conference of the Wildlife Disease Association, August 2-7, Blaine, Washington.
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- Gulland, F.M., Greig, D.**, Lloyd-Smith, J., Zuerner, R. 2009. Molecular markers, MAT and modeling: new evidence for Leptospirosis in California sea lions being endemic within periodic epizootics, defying the host-adapted strain paradigm for Leptospirosis. Proceedings of the 40th Annual Conference of the International Association of Aquatic Animal Medicine, May 2-7, San Antonio, Texas.
- Hall, A., Cordes, L., Thompson, L., Beaton, R., **Greig, D.** and B. McConnell. 2009. The adaption and use of radio frequency identification (RFID) tags for marking harbour seals (*Phoca vitulina*). 23rd Annual Conference of the European Cetacean Society, Mar 2-4, Istanbul, Turkey
- Levine, G., Braun, R., **Gulland, F.M.**, Yamagata, M., Colitz, C., **Wickham, D.**, Schofield, D., Littnan, C., Kashinsky, L. and Kendall, C. 2009. Idiopathic corneal edema in a monk seal pup hand reared from birth. Proceedings of the 40th Annual Conference of the International Association of Aquatic Animal Medicine, May 2-7, San Antonio, Texas.
- McConnel, B., Hall, A.J., Cordes, L., Thompson, L., Beaton, R., and **Greig, D.** 2009. The adaptation and use of radio frequency identification (RFID) tags for marking harbour seals (*Phoca vitulina*). Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.
- Montie, E.W., **Pussini, N.**, Schneider, G., Battey, T.W.K., Dennison, S., Barakos, J., and **Gulland, F.M.** 2009. Neuroanatomy and brain structure volumes of a live California sea lion (*Zalophus californianus*) from magnetic resonance images: utility in determining effects of domoic acid. Proceedings of the 40th Annual Conference of the International Association of Aquatic Animal Medicine, May 2-7, San Antonio, Texas.
- Norris, T.**, Littnan, C.L., **Gulland, F.M.**, and Harvey, J.T. 2009. Movement, survival, and disease profile of translocated and resident Hawaiian monk seals at Nihoa Island, Hawaii. Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.
- Rivera, R., Wellehan, J.F.X., Venn-Watson, S., Jensen, E., Carlin, K.P., **Gulland, F.M.**, Wells, R.S., St. Leger, J., Stolen, M., Noke Durden, W., and Nollens, H. 2009. Detection, diversity and epidemiology of marine mammal astroviruses. Proceedings of the 40th Annual Conference of the International Association of Aquatic Animal Medicine, May 2-7, San Antonio, Texas.
- Rowles, T., **Greig, D., Gulland, F.M.**, and Ip, H. 2009. Swine flu, bird flu, and human flu: what does it mean for marine mammals? Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.
- Schofield, D., Levine, G., **Gulland, F.M.**, and Littnan, C. 2009. The first successful rehabilitation and release of a Hawaiian monk seal pup with an overview of post release monitoring. Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.
- Wilkin, S., Berman-Kowalewski, M., **Gulland, F.M.**, Calambokidis, J., Mate, B., McKenna, M., Collins, P., Dover, S., Rotstein, D., St. Leger, J., Senyk, N., and Codero, J. 2009. Blue whale ship strikes off southern California. Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.
- Williams, K.**, and Harvey, J.T. 2009. The effects of storage time on hematology and serum chemistry parameters of the California sea lion (*Zalophus californianus*). Proceedings of the 18th Biennial Conference on the Biology of Marine Mammals, October 12-16, Quebec, Canada.

## Scientific Contributions

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- Colegrove, K.M., **Gulland, F.M.**, Harr K., Naydan, D.K., Lowenstine, L.J. 2009. Pathological features of amyloidosis in stranded California sea lions (*Zalophus californianus*). Journal of Comparative Pathology. 140: 105-112.
- Dailey, M.D.** 2009. A new species of *Parafilaroides* (Nematoda: filaroididae) in three species of fur seals (*Carnivora: otariidae*) from the southern hemisphere. The Journal of Parasitology. 95(1): 156-159.
- Dau, B.K., Gilardi, K.V.K., **Gulland, F.M.**, Higgins, A., Holcomb, J.B., St. Leger, J. and Ziccardi, M.H. 2009. Fishing gear-related injury in California marine wildlife. Journal of Wildlife Diseases. 45(2): 355-362.
- Dennison, S.E., Forrest, L., and **Gulland, F.M.** 2009. Normal thoracic radiographic anatomy of immature California sea lions (*Zalophus californianus*) and immature northern elephant seals (*Mirounga angustirostris*). Aquatic Mammals. 35 (1): 36-42.
- Fauquier, D.A.**, Kinsel, M.J., **Dailey, M.D.**, Sutton, G.E., Stolen, M.K., Wells, R.S., and **Gulland, F.M.** 2009. Prevalence and pathology of lungworm infection in bottlenose dolphins *Tursiops truncatus* from southwest Florida. Diseases of Aquatic Organisms. 88: 85-90.
- Goldstein, T., Zabka, T.S.**, DeLong, R.L., **Wheeler, E.A.**, Ylitalo, G., Bargu, S., Silver, M., Leighfield, T., Van Dolah, F., Langlois, G., Sidor, I., Dunn, J.L., and **Gulland, F.M.** 2009. The role of domoic acid in abortion and premature parturition of California sea lions (*Zalophus californianus*) on San Miguel Island, California. Journal of Wildlife Diseases. 45(1): 91-108.

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**Stoddard, R.A.**, Atwill, E.R., Conrad, P.A., Byrne, B.A., Jang, S., Lawrence, J., McCowan, B., and **Gulland, F.M.** 2009. The effects of rehabilitation of northern elephant seals (*Mirounga angustirostris*) on antimicrobial resistance of commensal *Escherichia coli*. *Veterinary Microbiology*. 133: 264-271.

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**Zabka, T. S.**, **Goldstein, T.**, C. Cross, R. W. Mueller, C. Kreuder-Johnson, S. Gill, and **Gulland, F.M.** 2009. Characterization of a degenerative cardiomyopathy associated with domoic acid toxicity in California sea lions (*Zalophus californianus*). *Veterinary Pathology*. 46: 105-119.

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## VISITING RESEARCHERS AND RESEARCH COLLABORATIONS

*Karina Acevedo-Whitehouse (Institute of Zoology, London) – Phylogeny and disease susceptibility in California sea lions*

*Jerome Barakos (California Pacific Medical Center) – MRI imaging of California sea lions with domoic acid toxicosis*

*Matthew Breen (North Carolina State University) – Tumor cytogenetics of California sea lions*

*Daphne Carlson Bremer (University of California, Davis) – Diagnosis of protozoal pathogens in California sea lions*

*Alex Chow, Jonna Mazet (University of California, Davis, Wildlife Health Center) – Health impacts of mercury and selenium accumulations in California sea lions*

*Kathleen Colegrove (University of Illinois) – Role of DNA adducts and contaminants in development of carcinoma in California sea lions*

*Jocelyn Flanary (Medical University of South Carolina) – Perfluorinated compounds in California sea lions and northern fur seals*

*Elizabeth Frame, Kathi Lefebvre (NOAA-Northwest Fisheries Science Center) – Domoic acid detection in stranded marine mammals*

*Tracey Goldstein (Marine Ecosystem Health Diagnostic and Surveillance Laboratory) – Morbillivirus surveillance*

*Ailsa Hall (Sea Mammal Research Unit, University of St. Andrews, Scotland) – Epidemiology of cancer in California sea lions*

*Michael Janech, Jason Ferrante (Medical University of South Carolina) – Determination of protein biomarkers as indicators of domoic acid or leptospirosis exposure*

*Susan Klosterhaus, Meg Sedlak (San Francisco Estuary Institute) – Emerging contaminants in harbor seals from San Francisco Bay*

*James Lloyd-Smith (Pennsylvania State University) – Cyclical changes in leptospirosis in California sea lions*

*Milton Levin, Sylvain De Guise (University of Connecticut) – Effects of domoic acid on immune function of California sea lions*

*Eric Montie (University of South Florida) – Relationship between PCBs, PBDEs and domoic acid exposure on California sea lions via MRI and volumetric neuroimaging*

*Colleen Reichmuth (University of California, Santa Cruz) – Assessment of behavior of California sea lions with long-term effects of domoic acid toxicosis*

*James Ryan, Fran Van Dolah, Greg Warr (Hollings Marine Laboratory, Charleston) – Domoic acid microarray*

*Dmitriy Volokhov (Nicholson Research Center) – Mycoplasma surveillance in marine mammals*

*Collette Williams (University of California, Davis) – Electroencephalograms from California sea lions with domoic acid toxicosis*

*Richard Zuerner (National Animal Disease Center) – Leptospirosis epidemiology*

*Moss Landing Marine Laboratories, National Park Service, CalTrans, University of California, Davis, San Francisco State University – Health survey of harbor seals in the San Francisco Bay*

*U.S. Fish and Wildlife Service, US Geological Survey, California Department of Fish and Game – Health and disease investigations in Northern sea otters*

## ADVISORY PANELS

*Hawaiian monk seal recovery team, Member – Frances Gulland*

*The Marine Mammal Commission, Scientific Advisor – Frances Gulland*

*Advisory Board, Oiled Wildlife Care Network, Member – Frances Gulland*

*Working group on marine mammal unusual mortality events, Emeritus Member – Frances Gulland*

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*James Harvey, Ph.D., Moss Landing Marine Laboratories*

*Dave Jessup, BS, DVM, MPVM, DiplACZM, Marine Wildlife Veterinary Care and Research Center, California Department of Fish and Game*

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The year 2009 was an exceptionally busy one for The Marine Mammal Center as volunteers and staff worked around-the-clock to respond to and care for 1,704 seals and sea lions – a record in its 34 year history! The majority of these animals were young California sea lion pups that began washing up on beaches along the California coast beginning in late April. Most of them suffered from malnutrition – a sign of an ever-changing ocean environment. Additionally, the Center saw other patients with unusual medical conditions. Some required complex surgeries while others were entangled in marine debris. Even a rare species of turtle appeared in the Center’s rescue range and was rescued!

## ANIMAL STORIES

### Wolfie – An Experimental Surgery

“Wolfie”, a California sea lion with a severe infection of his wrist joints, received special care in 2009 after he was rescued and brought to the Center. When the infection did not respond to antibiotics, staff had to choose between humanely euthanizing Wolfie or attempting an experimental surgery to remove dead and infected bone.

The Center’s veterinarians are not experts in this surgery. In fact, there are no experts in this surgery. However, with each experience, the Center gains knowledge, skills and abilities that can then apply to future patients.

The veterinarians performed an intricate surgery that involved many of the small bones in the joint and the surrounding soft tissues. After surgery, the joint needed to be stabilized to promote healing. They then applied an Agee Wristjack® using a technique called Multiplanar Ligamentotaxis™ designed for use in human wrist fracture stabilization that was graciously donated by a volunteer. Just before Wolfie’s release, veterinarians attached a satellite tracking device in order to follow the sea lion’s journey.

### Hawaiian Monk Seals – A Race Against Time

The Marine Mammal Center continues to collaborate in scientific research into the health and underlying causes of population declines of threatened and endangered marine mammal species. In early September 2009, Dr. Frances Gulland, research assistant Tenaya Norris, and colleagues from the National Marine Fisheries Service (NMFS) satellite tagged nine Hawaiian monk seals as part of a comprehensive effort to compare the Nihoa Island region to French Frigate Shoals. In their work, they found three of six animals tagged last year that were fit and robust this year. They also set in place an array of studies to assess this region versus others in the area for its potential for placing animals in translocation efforts. The Center’s work, in conjunction with NMFS is helping



conserve this species of seal which is nearing extinction. To help Hawaiian monk seals click here: [www.marinemammalcenter.org/about-us/organization-information/awareness-campaigns/save-the-hawaiian-monk-seal.html](http://www.marinemammalcenter.org/about-us/organization-information/awareness-campaigns/save-the-hawaiian-monk-seal.html)

### Donatello – A Sea Turtle in an Odd Place

The Marine Mammal Center was called to rescue a rare Olive Ridley sea turtle that washed ashore at Stinson Beach on November 25. This is the 26th sea turtle the Center has rescued in its 34-year history, and only the third report of an Olive Ridley turtle in Marin waters in the past decade. Donatello, as she was nicknamed, weighed in at just over 54 pounds and was in very poor condition, suffering from dehydration, malnutrition, and low body temperature. Upon arrival, Donatello had all kinds of barnacles, ghost shrimps and even crabs attached to her shell. Veterinarians gave fluids, antibiotics, and vitamins to her. Because of the special care she needed, she was transported to Sea World in San Diego where she was tube-fed twice a day. If she becomes healthy and strong, Donatello could be released as early as Summer 2010.

### Cujo – An Entanglement with a Happy Ending

Cujo, a California sea lion with a neck entanglement, brought back staff and volunteer memories of another former patient named Leault when he arrived at the Center on June 17, 2009. Similarly, a 54 centimeter circumference plastic packing strap was embedded in the animal's 69 centimeter circumference neck! This strap must have been there for months because tissue was actually growing around it and the skin was trying to cover it up. With the strap removed, Cujo healed quickly and easily. Like Leault, he ended up with an ugly scar but a happy ending back in the ocean.

### Round Two – A True Fighter – Thriving After an Amputation

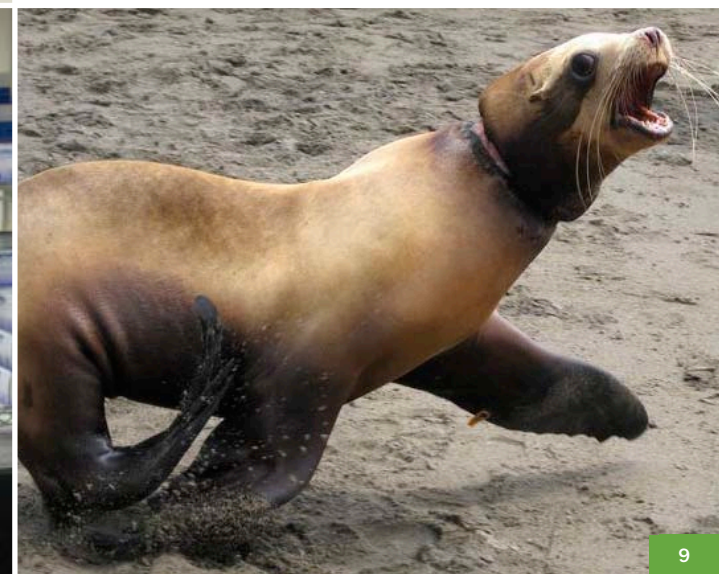
Round Two, a female California sea lion, came to the Center in August with major damage to her right hind flipper. Upon evaluation, it was determined that the trauma and infection were too much to repair. Lucky for Round Two, this was only a hind flipper and she could do well without it. Staff performed a successful amputation and shortly after the medical procedure, Round Two was swimming around and eating well. Veterinarians felt optimistic that she would be healthy enough to return to the wild, and they were right. She was released back to the ocean two months later.



Previous page, clockwise: A Hawaiian monk seal hauls out. Wolfie's x-ray shows the extent of his injuries.

This page, clockwise: Cinta, an endangered Guadalupe northern fur seal, is freed from her entanglement in balloon ribbon. Cujo dashes towards the ocean after his successful rehabilitation. Staff Veterinarian, Dr. Bill Van Bonn, keeps Donatello, an Olive Ridley turtle, moist during examination. Dr. Bill Van Bonn finishes removing an entanglement from Cujo.

For more animal patient success stories, click here: [www.marinemammalcenter.org/patients/success-stories/](http://www.marinemammalcenter.org/patients/success-stories/)





# THE YEAR IN NUMBERS

Percentages are approximate due to rounding procedures.

## Number of animals admitted by species

	NUMBER	PERCENT
California sea lions	1,366	80%
Northern elephant seals	154	9%
Pacific harbor seals	124	7%
Steller sea lions	1	0.1%
Northern fur seals	6	0.4%
Guadalupe fur seals	4	0.2%
Cetaceans – various species	30	2%
Southern sea otters	2	0.1%
Sea turtles	1	0.1%
Non-accessioned animals <sup>†</sup>	16	1%
<b>TOTAL</b>	<b>1,704</b>	<b>100%</b>

<sup>†</sup> Non-TMMC Accession = animals rescued by the Center, but not assigned a field number (e.g. transfer to another agency)

## Rescues due to human interaction

	NUMBER	PERCENT
Unauthorized pickup	18	1.1%
Harassed	16	0.9%
Gunshot	18	1.1%
Netting	10	0.6%
Fishing Line	4	0.2%
Fish hooks/Lures	76	4.5%
Other marine debris	18	1.1%
Boat strike	1	0.1%
Oil/Tar	22	1.3%
<b>TOTAL</b>	<b>183</b>	<b>11%</b>

Percent is of total animals accessioned

## Disposition

	NUMBER	PERCENT
Total Animals Accessioned in 2009*	1,704	100%
Entered rehabilitation	1,533	90%
Placed	10	1%
Relocated/Transfer	59	3%
Carcass/Dead on arrival	113	7%
Released to wild**	522	34%
Euthanized/Died in Treatment**	998	65%
Admitted in 2008/Disposition in 2009***	5	0.3%
Still on-site as of January 1, 2010**	2	0.1%

\* Every animal receives an accession number, but not all animals enter rehabilitation

\*\* Percentage based on animals that entered rehabilitation, not on total animals accessioned

\*\*\* 0.3% of disposition animals for 2009, were admitted in 2008

Each year the education department's efforts reach thousands of students as well as the visiting public.

Teaching others about marine mammals and environmental stewardship is a core value. Our mission says it best – to expand knowledge about marine mammals – their health and that of their ocean environment – and to inspire their global conservation.

What better way to achieve this than to educate visitors, from children to seniors, via a number of key educational programs.



## EXPANDING KNOWLEDGE

### New Programs/Tours for School Groups

A brand-new building with audio visual enhancements has facilitated the creation of new programs for school groups. Since 2008 the education team has worked with Program Developer, Lori Mann, and Evaluations Specialist, Margaret Kadoyama, to develop new programs and tours specifically for school groups. The process involved teacher focus groups, staff brainstorm sessions and pilot testing. Teachers can now choose from one-to-two-hours of programming for their classes. Each grade level has a specific themed program and tour that supports the California State Academic Standards and is enriched by unique hands-on activities and many others. Programs include **Marine Mammal Babies** and **Seals, Sea Lions and Sustenance**. Please visit [www.MarineMammalCenter.org](http://www.MarineMammalCenter.org) to view the new line-up. Program development and evaluation was supported by funds from the San Francisco Foundation and PG&E.

### New Partnership with Conservation Corps North Bay

Opening the new facility to visitors and groups increased demands on education staff. So, in 2009, a new partnership between the Center and Conservation Corps North Bay (CCNB) who administers AmeriCorps in Marin, was both timely and welcome. The two AmeriCorps interns are college graduates that commit to a term of service from October to August. In addition to job training, they gain the chance to make a difference in both their lives and that of their community.

An AmeriCorps volunteer's role is to educate children, seniors, and other visitors about the Center's work, to inspire interest in the ocean environment and to encourage action in marine mammal protection. AmeriCorps



## COASTAL CLEAN UP AT RODEO BEACH



- In just one day, 156 volunteers collected 153 lbs. of trash! In all, they gathered 24 lbs. of recyclables.
- The top three items included 1,422 cigarettes/cigarette filters, 969 food wrappers, and 503 styrofoam pieces.
- Groups that participated included Oracle employees, K-2nd grade students and teachers from Modesto's University Charter School, and "Youth and the Ocean", a group of Latino middle and high school students and parents from Oakland with staff from the Berkeley's Lawrence Hall of Science.

## RECORD NUMBER OF VISITORS



The Center has been busy! More than 50,000 visitors came to the hospital from opening day in June to December 31, 2009, in addition to another 50,548 participants in our Education Program/Tours. Click here to learn how you can visit the Center today!: [www.marinemammalcenter.org/visiting-us/](http://www.marinemammalcenter.org/visiting-us/)

interns act as docents, lead tours, and teach classroom programs at the hospital facility and at school sites with the Whale Bus. This new partnership was funded by the Schow Foundation and the Gamble Foundation.

## Marine Science Discovery Program

This year marks the end of funding from NOAA's Bay Watershed Education Training Program Grant for the Center's Marine Science Discovery Program (MSDP). The funding covered half the operating budget for MSDP for the past three years. During that time, 732 low-income students from Richmond, Oakland, San Francisco, Santa Rosa and Pittsburg have benefited from this unique program. The grant supported evaluations of the program that improved academic rigor and developed evaluation tools and a grading rubric. Labs were improved with the purchase of new equipment such as a hand-held field lab GPS, microscopes, a flat screen monitor, and bone clone specimens. Other funders of MSDP in 2009 included the Sato Foundation and the Union Bank of California Foundation. We thank all of the supports of MSDP for helping us help students expand their knowledge about marine mammals and the ocean.



## EDUCATION DEPARTMENT COLLABORATIVE PARTNERS

AmeriCorps, Washington DC  
American Association of Zookeepers, Topeka, KS  
Año Nuevo State Reserve, Pescadero, CA  
Aquarium of the Bay, San Francisco, CA  
California Coastal Commission (Coastal Clean Up Day), San Francisco, CA  
Cordell Bank National Marine Sanctuary, Pt. Reyes, CA  
Conservation Corps North Bay, San Rafael, CA  
Farallones Marine Sanctuary Association, San Francisco, CA  
GasLight Tours, Sausalito, CA  
Gulf of the Farallones National Marine Sanctuary, San Francisco, CA  
Headlands Institute, Sausalito, CA  
Lindsay Wildlife Museum, Walnut Creek, CA  
National Association of Museum Exhibitors, Western Region, Santa Cruz, CA  
National Park Service, Golden Gate National Recreation Area, Sausalito, CA  
Oakland Zoo Docents, Oakland, CA  
PIER 39, San Francisco, CA  
Point Bonita YMCA, Sausalito, CA  
Point Reyes National Seashore Association (Field Seminars),  
Pt. Reyes Station, CA  
Point Reyes National Seashore Winter Wildlife Docents, Pt Reyes Station, CA  
Romberg Tiburon Center for Environmental Studies, Tiburon, CA  
San Francisco Bay Model, Sausalito, CA  
San Francisco Zoo Docents, San Francisco, CA  
Scientific Art Studio, Richmond, CA  
Seaman's Training Institute, Sausalito, CA

## PROFESSIONAL ORGANIZATION MEMBERSHIPS

Cultural Connections, Albany, CA  
National Marine Educators Association,  
Ocean Springs, MS  
Southwest Marine/Aquatic Educators Association

## EDUCATION STAFF PARTICIPATION ON BOARDS AND COMMITTEES

Environmental Education Council of Marin (EECOM)  
Board Chair – Ann Bauer, Director of Education  
Cordell Marine Sanctuary Foundation --  
Doreen Gurrola Co-founder and Secretary

## All Visitors/Participants Served

Drop-in visitors at the Center's hospital in Sausalito	46,718
Participants in programs/tours/fairs/events	50,548
Participants in self-guided tours	3,939
<b>TOTAL SERVED</b>	<b>101,205</b>

## Participants in Education Programs/Tours/Fairs/Events

### At The Marine Mammal Center Hospital in Sausalito:

Programs/tours for school and public groups	16,604
Docent-led tours for individuals	974
Marine Science Discovery Program* classes	164
Research Discovery Day Program for high school/junior college groups	358
Call to the Rescue program for school groups	2,514
Guided BeachWalk programs for schools at Rodeo Beach	1,013
Donor release events	628
Grand Opening events	1,774

### Outreach:

Whale Bus outreach to schools	7,693
Sea Lions in the City program at PIER 39	563
Lectures for docents/public/teachers	427
Speakers Bureau presentations by field office staff	1,214
Fairs throughout our rescue range	16,622
<b>TOTAL PARTICIPANTS</b>	<b>50,548</b>

\*MSDP served low-income students from Oakland High, Oakland Tech, Pittsburg High and Elsie Allan of Santa Rosa



# GRAND OPENING

## If you build it, they will come!

The Marine Mammal Center celebrated a historic milestone on June 5, 2009, re-opening its newly re-built hospital headquarters in Sausalito. Just over 300 people were in attendance including the original founders, Lloyd Smalley, Patricia Arrigoni and Paul Maxwell, in addition to staff, volunteers, board members, and honored guests.

Since the public opening of The Marine Mammal Center's newly rebuilt headquarters in June, more than just a record number of patients have come through our doors (see animal success story). Between June and December, more than 50,000 guests visited! All have been amazed and introduced to a state-of-the-art facility designed to provide the best medical care for the patients, a collaborative working environment for staff and volunteers, and an educational experience designed to inspire young and old minds alike about the wonders of marine mammals and the ocean environment. We think our patients are impressed too. You can visit the new headquarters in Sausalito seven days a week between 10 a.m. and 5 p.m.



On this page, clockwise: Special guests, board members, and supporters (including the Center's co-founder Lloyd Smalley, philanthropist, Gretchen Kimball, and board chairman, Merrill Magowan) cut the ribbon. Underground in one of the missile silos that now is home to the new water filtration system for the pools. Board chairman, Merrill Magowan, co-founder Lloyd Smalley, and the Center's executive director, Jeff Boehm. Next three pictures, guests enjoy a festive grand opening celebration!

To read more about the Grand Opening of the new hospital, click here: [www.marinemammalcenter.org/assets/pdfs/communications/release-newsletters/spring-09.pdf](http://www.marinemammalcenter.org/assets/pdfs/communications/release-newsletters/spring-09.pdf)



# CAPITAL CAMPAIGN

The Marine Mammal Center thanks and proudly recognizes the support of all donors that contributed \$500 or more to its capital campaign through December 31, 2009.

For a full listing, visit [www.marinemammalcenter.org/assets/pdfs/development/capital-campaign-supporters.pdf](http://www.marinemammalcenter.org/assets/pdfs/development/capital-campaign-supporters.pdf)

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## FACES OF VOLUNTEERS

### Marjorie Boor – Sausalito Headquarters

Marjorie Boor, a Sausalito volunteer, has discovered a fascinating nexus between her work as a professional and her efforts as a volunteer.

Marjorie, a diagnostic cardiac and vascular sonographer, has applied this expertise to marine mammals. Partnering with the Center's veterinary science department, she has been involved in projects to investigate various heart conditions in pinnipeds via echocardiography and 12 lead EKG – diagnostic tools that are well-developed in human medicine, but that have been lacking consistent methodology in marine mammal medicine. "I love that, for a change, years of research that has been done in humans is being applied in a meaningful way to these intriguing diving mammals," notes Boor.

The convergence of wildlife in a metropolitan setting fascinates Marjorie. "Responding to stranded animals in urban areas never ceases to amaze me," comments Marjorie. "People forget that we are surrounded by the bay, even where I live in Oakland. In addition to getting to see pockets of life that I would otherwise be unaware of such as estuary offices, coast guard docks, and tug boat bases, it's always rewarding to see how surprised and moved people are when these animals turn up in unexpected places."

It's a juxtaposition "vividly illustrated last year when a sea lion (nicknamed Fruitvale) turned up on interstate 880 in the early morning commute," remembers Boor. "It's a nice reminder that, as residents of the Bay Area, they are our neighbors."

The Marine Mammal Center was originally founded by three volunteers and still relies upon a dedicated force of 900 volunteers from Mendocino to San Luis Obispo counties. These devoted volunteers make up 95% of the Center's total personnel. Volunteers serve as docents, work on animal care crews, rescue animals, staff the retail operations, and offer support to the veterinary science and administrative staff.

By the end of 2009, our volunteers had dedicated 108,741 hours of their time helping The Marine Mammal Center rescue and treat marine mammals in need, and educating the public about the connections we all share with the oceans and its inhabitants.

Learn how you can become a volunteer! Visit [www.marinemammalcenter.org/what-you-can-do/volunteer/](http://www.marinemammalcenter.org/what-you-can-do/volunteer/)





### Tanya Smart – Fort Fragg Operations

Tanya Smart, part of the Fort Bragg Operations rescue crew, has many vivid memories spanning her volunteer years. One of her earliest is of a harbor seal pup from Eureka. “I was so inexperienced that I thought its intestines were hanging out from a shark bite. But it was the umbilical cord and Jack turned out to be Jacqueline,” remembers Smart.

Another favorite was Wayne, a big sea lion at the Center, who would rush over to see her every time she walked by his pen. “I think I looked like the tastiest salmon he’d ever seen,” notes Smart. Other memories include getting stuck in the mud in the Tiburon flats with a big sea lion vocalizing, netting her first big sea lion at Caspar Beach, rescuing Morty, and being dragged all over the beach and into the water by Gorby.

Tanya volunteers to be close to the animals. “I want to connect: to do something to give back when we as humans take so much. I look them in the eye, and somehow I hope to convey that I care, I love, and I’m trying to help. The sea lions give back in the way they look at you – it does seem they understand,” says Smart.

### Bill Avellino – MBO Operations

Bill Avellino started volunteering at the Monterey Bay Operations (MBO) after happening upon a rescue while on a beach run near his home. Over the past decade of volunteer work, his most memorable moment was falling off the rocks and into the bay at Breakwater Cove during a rescue attempt! “I never dreamed how fast one sinks when fully clothed,” recalls Avellino. “Fortunately, another volunteer grabbed my collar just in time.”

Bill also recounts a torturous half-mile hike under Bixby bridge to rescue an elephant seal. “It seemed like a swamp,” said Avellino.

His favorite rescue was with yet another volunteer. “We rescued an elephant seal pup from Davenport beach after a climb down a cliff that appeared to be impossible,” notes Avellino. “Since it was around Chinese New Year, we named the animal ‘Fortune Cookie’ and the beach is now called ‘Fortune Cookie Beach’ by the staff.”

Bill treasures two rewards of volunteering in particular: “seeing a release and watching the joyful reaction when a new volunteer is handed the net for his first rescue.”

Bill feels that volunteering is a way “to give God’s creatures a helping hand after all the abuse man has heaped upon them.”

### Margaret (P.J.) Webb – SLO Operations

P.J. first became involved as a volunteer in our San Luis Obispo Operations (SLO) because she was intrigued by the idea of working with wild animals.

Over the last eight years, P.J. has been involved in countless rescues. But two still stand out. One involved a stranded otter pup in Cambria that was trapped three feet in a small, twisty chasm above a cave. P.J. extracted the otter and brought him up the bluff for a medical evaluation. She loaded him into a carrier and brought him to a tide pool with the hope of a reunion with his mother. After a while, the pup recovered, made his way into the strong surf and started making some noise. An adult otter swam over and they touched noses. There were many cries and squeals as the reunion between mother and baby took place.

Her other favorite rescue was Arrow, a small sea lion with a crossbow arrow through its neck.

“I love the physical aspect of a rescue: the hands-on feeding and treatment,” says P.J. “We work late and hard, and get dirty. I also treasure the school presentations. There is nothing like seeing a third grader touching an otter pelt or harbor seal whiskers for the first time. They know so much more about the ocean than I did as a kid. It’s a welcome contrast to the heartbreak of human impact: we see animals hit by arrows or gunshots; cut and choked by packing straps, fishing lines and other debris. But seeing the children learn about the ocean gives me hope for a more environmentally conscious future.”

# OUR VOLUNTEERS

We thank our 900+ volunteers who donated 108,741 hours of their time during the calendar year 2009 to help rescue and care for marine mammals in need and to help the Center deliver educational outreach programming and administrative tasks.

## COMMITTED, DEDICATED, HARDWORKING, PASSIONATE

Tina Abbate	Jennifer Bell	Matthew Brim	Larry Clinton	Kathleen	Ashley Fell	Christian Gilmer	Harold Hauck	Nicole Hvid
Jeanne Acceturo	Paulette Bellamy	Richard Broadwell	Sarah Codde	Disney-Nilson	Jennifer Ferber	Federica Giorda	Jan Haverty	Maddalena
Bill Ake	Laura Bellinghausen	Tally Buckstaff	Michael Coffman	Joanne Domingoes	Karla Fernandez	Fred Glazier	John Haverty	Iannaccone
Barbara Akle	Elizabeth Benitez	Tally Buckstaff	Peter Cohen	Joseph Domingoes	Sandy Fernandez	Margaret Glover	Lynn Hawes	Tomomi Imura
Jeremy Alcantara	Megan Beresford	Verity Burgess	Aaron Cohen	Ann Domm	Chris Fernandez	Ilana Goldbarg	Sue Hawley	Sharron Jackman
Jayne Allen	Jeanette Bergstrom	Judi Burle	Gretchen Cole	Lauren	Roberta Ferraris	Jason Goldheim	Shannon Hay	Lee Jackrel
Diane Allen	Jean Bernard	Guy Burnett	Bryan Coleman	Donnelly-Crocker	Richard Ferris	Gregory Gonzalez	Gregory Helfer	Alison Jackson
Victor Alm	James Bernard	Sylvia Burns	Craig Comen	Amber Dooley	Taddy Fick	Kristin Gordon	Howard Hendler	Teresa Jacques
Richard Alman	Holger Berndt	Zofia Burr	Megan Connolly	Richard Dorflinger	Laura Figoski	Julia Gorton	Linda Hendler	Jenni James
Sabrina Alonso	Rochelle Bernet	Darci Burrell	Michel Conrad	Jeremy Dossetter	Antonio Fillari	Andrea Graessle	Lawrence	Karla James
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In 2009, The Marine Mammal Center received a number of generous contributions that increased its capacity to fulfill its mission. The Center would like to take this opportunity to highlight six generous donors whose gifts made a significant impact on its operations.



## DONOR HIGHLIGHTS



### Oracle Corporation

In 2009, the Center re-established its relationship with the Oracle Corporation in a significant way, beginning with a \$20,000 contribution from the Oracle Education Foundation to support the Center's Whale Bus program. In addition, Chad Carlson, Senior Director of Global Advertising at Oracle, joined the Center's board of directors in 2009.

Oracle was also one of the two title sponsors of the Center's Grand Opening celebrations in 2009, and, when the weather called for rain on the date of the Center's Ribbon Cutting event on June 5, 2009, Mr. Carlson was able, on extremely short notice, to convince the company to lend the Center its tents to cover its courtyard! In light of all of this generosity, the Center was proud to include Ms. Colleen Cassity, Executive Director of the Oracle Education Foundation, among the cutters of the ribbon during its grand opening festivities on June 5, 2009.

In addition to its general financial contributions, in 2009 Oracle sent four teams of over 120 of its employees to volunteer at the Center, and they worked alongside animal care crews and supported our annual coastal clean-up event. One Oracle employee, Ms. SJ Parker, even became a regular volunteer at the Center!

The Center is sincerely grateful to Oracle for all of its support and its commitment to our environment; we look forward to continuing this partnership for many years.

## Koret Foundation

The Koret Foundation made its first grant to the Center in 2006, in the amount of \$250,000, for the Center's capital campaign. When the Center needed to raise additional funds for Phase II of its capital campaign, the Koret Foundation responded with another grant of \$250,000. This additional grant was a 1:1 matching grant, and has enabled the Center to raise an additional \$210,000 toward Phase II.

The Center was honored to name its Courtyard in recognition of the generosity of the Koret Foundation, and to have Ms. Susan Koret, President of the Foundation, among the cutters of the ribbon during its grand opening celebration on June 5, 2009.

The Marine Mammal Center is grateful for the generosity of the Koret Foundation to its new facility, and is proud to be included in its efforts to strengthen the Bay Area.

## Estate of Deane Oberste-Lehn

Ms. Deane Oberste-Lehn, who earned an MS and a PHD from Stanford, passed away at the age of 75 in 2009. While she had not been a long-term or a major donor, Ms. Oberste-Lehn left the remainder of her estate to The Marine Mammal Center. She earned a bachelor's degree in geology from UCLA and worked for the Rand Corporation before attending Stanford. After completing her PhD, she was a consulting geological engineer and worked for R&D Associates in Marina Del Rey, California. After retirement, she participated in organizations dedicated to the protection of marine mammals and horses.

The Center is grateful that Ms. Oberste-Lehn selected it as a place to honor her commitment to animal welfare and the environment, in perpetuity.

To learn more about corporate sponsorship, click here: [www.marinemammalcenter.org/what-you-can-do/corporate-partners-and-community-sponsors/corporate-levels-benefits.html](http://www.marinemammalcenter.org/what-you-can-do/corporate-partners-and-community-sponsors/corporate-levels-benefits.html)

## Ellie Gustafson and Stewart Goossens

Through the years, the Center has received wonderful contributions from young philanthropists, and in 2009 two young people went above and beyond the call in their efforts to support the Center.



First Ms. Ellie Gustafson of Maryland heard about our "Dollar-a-Pound" campaign and began holding bake sales in her neighborhood to raise money to buy fish for our patients. When she learned that the top fundraiser would receive a behind-the-scenes tour of the Center, she raised even more money through more bake sales and through an online fundraising page. The Center's staff was so delighted by her accomplishment, they invited Ellie and her mom Kathy as special guests for the Ribbon Cutting event on June 5 (and Ellie even helped cut the ribbon – see photo on page 14). Ellie raised over \$800 – and that bought over 800 pounds of fish for the Center's patients!

Midway through the Dollar-a-Pound campaign, San Francisco high school student Stewart Goossens informed the Center that he planned to swim the Strait of Gibraltar and that he would like to use his swim to raise money to help feed our seals. Thus, Stewart began a "Swim for the Seals" campaign, and he raised \$20,000!

Stewart was also a special guest at our 2009 Gala, and he was the youngest American to ever complete the swim through the Strait of Gibraltar.

Ellie and Stewart were incredible inspirations. The Center salutes them and their parents, for their warm spirits and caring hearts.



## Margaret A. Cargill Foundation

The late Margaret A. Cargill was a prominent philanthropist, and the environment was among her strongest passions. After she passed away in 2006, a charitable foundation was established to carry on the legacy of her philanthropic work, and The Marine Mammal Center was one of a small number of organizations that was invited to apply for a grant from the foundation.

Ms. Cargill owned one of the largest holdings of Cargill, Inc., the largest privately held company in the United States (if it were a public company, it would rank among the top 10 companies on the Fortune 500 list).

In May 2009, the Center received the good news that it had been awarded a grant of \$50,000, to be paid over five years and to support its animal care work, as well as occasional dividends of securities. In 2009, the Center received a total of \$12,737 from the foundation that consisted of the first \$10,000 grant payment and another \$2,737 in dividends.

The Center is truly grateful to be included among the organizations that are carrying on the legacy of Ms. Cargill.

# OUR DONORS

The Marine Mammal Center thanks and proudly recognizes the support of donors to its annual campaign during the 2009 calendar year. These gifts to the Center's annual fund sustain its ongoing work in animal care, scientific research and marine science education.

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Angele Williams  
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Diesel and Ethyl  
Ryan and Shannon

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Ronald Brenner  
Randall "Buzz" Carlsen

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Benjamin Cornet  
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Marion Doremus Bowler Trust  
James C. Cummings Charitable Remainder Trust  
Estate of Thomas A. Griffin  
Helen M. Haki  
The Gale Henning Trust  
Barbara L. Johnson Trust  
Estate of Mildred Lillis  
Estate of Alice Armstrong Lomas  
Estate of Barbara J Mapp  
Mikkelsen Marital Trust  
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Estate of Svend Petersen  
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Annelle Clute  
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 Gail Costa  
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 Ruth Craig  
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 and Christian E. Creteur  
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 Matthew Cupal  
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 Damsgaard  
 Peter and Melinda Darbee  
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 Patricia Day Lollini and  
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 June Heilman  
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 Magda Soley  
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Edwin and Jeanne Woods  
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Kelly Zolinski  
Jean Zukin  
James Andrew Zurn

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**\$100,000+**

Anonymous  
Geoffrey C. Hughes  
Foundation, Inc.  
Koret Foundation  
PIER 39 Limited  
Partnership  
The Roberts Foundation

**\$50,000 - \$99,999**

Anonymous  
Elinor Patterson Baker  
Trust  
Dawn  
DMARLOU Foundation  
Thelma Doelger Trust for  
Animals  
McBean Family Foundation  
Oracle Corporate Giving  
Programs  
Wallace Genetic Foundation,  
Inc.

**\$25,000 - \$49,999**

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Bank of America  
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Cinco Hermanos Fund  
Thelma Doelger Charitable  
Trust

The Samuel E. and Hilda S.  
Duff Trust  
Firedoll Foundation  
Foren Family Foundation  
Glenn A. Haldan Charitable  
Foundation  
The Sato Foundation

**\$10,000 - \$24,999**

The Atmos Foundation  
The Callison Foundation  
Margaret A. Cargill  
Foundation  
Fullerton Family Charitable  
Trust  
The Ginn Family  
Foundation  
Lasky Charitable Lead  
Trust  
Maddie's Fund  
Marisla Foundation  
The Bernard Osher  
Foundation  
Pacific Gas & Electric  
Company  
Eric Roberts Foundation  
The Robison Family  
Foundation  
Dr. Scholl Foundation  
The Schow Foundation  
Union Bank of California  
Wells Fargo  
David P. Wheatland  
Charitable Trust

**\$5,000 - \$9,999**

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Artis Capital Management  
Autodesk, Inc.  
Community Thrift Store  
The David B. Gold  
Foundation  
The Hope and Norman  
Hope Foundation  
Charles Henry Leach II  
Foundation  
Merfin, LLC  
Pacific Service Credit  
Union  
Prime Administration, LLC  
Charles Schwab  
Foundation  
Sunshine Polka-Dot  
Foundation  
The Thornhill Family  
Foundation

**\$2,500 - \$4,999**

Anonymous

Bodega Harbour Women's  
Golf Club  
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Foundation  
Citi Global Impact Funding  
Trust, Inc.  
Community Foundation  
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Ann Spencer Fund for  
The Marine Mammal  
Center  
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Walter & Elise Haas Fund  
The William H. & Mattie  
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The Herbst Foundation,  
Inc.  
The Edward E. Hills Fund  
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Charles See Foundation

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Copen Family Fund  
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Econscious  
Simon Edison Foundation,  
Inc.  
The E.D. Foundation  
Econolite Control Products,  
Inc.  
The Gaea Foundation  
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Gill Family Foundation  
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Foundation, Inc.  
Guarantee Mailing  
Services, LLC  
Harris myCFO Foundation  
The James and Karen  
Hayman Family Fund of  
the Lutheran Community  
Foundation  
International Interior  
Design Association

The James Irvine  
Foundation  
The Jones-Smith  
Foundation  
Kazan, McClain, Abrams,  
Fernandez  
William and Gretchen  
Kimball Fund  
KPMG LLP  
Sara Lee Foundation  
Bernard Lewis Charitable  
Foundation  
Lucasfilm Foundation  
Lutheran Community  
Foundation  
Cynthia and Merrill  
Magowan Family  
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Markmakers Foundation  
McCormick & Kuleto's  
McKesson Foundation, Inc.  
MissionFish  
Morris Animal Foundation  
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Foods  
The Overbrook Foundation  
Pacific Union Real Estate  
Group  
Paws Up Foundation  
Perch, Inc.  
River and Ocean  
Roll Giving  
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San Francisco Sentry  
Investment Group  
Sisters of Perpetual  
Indulgence, Inc.  
Stellar Solutions  
Foundation  
Surf Addict  
The Traverse Foundation  
Tupton Osel Choling  
West Marine Products Inc.  
Whole Foods  
Yolo County Sheriff's Posse

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The Gap  
Google  
KPMG LLP  
Matson Navigation  
Company/Alexander &  
Baldwin, Inc.  
McKesson Foundation  
Sara Lee

## MATCHING GIFT AND WORKPLACE GIVING ORGANIZATIONS

Adobe Matching Gift  
Program  
Allstate Giving Campaign  
Altria Group, Inc.  
AMD Matching Gift  
Program  
America's Charities  
American Express  
Foundation Employee  
Giving Campaign  
Anchor Brewing Co.  
AT&T Foundation  
AT&T United Way Employee  
Giving Campaign  
Avon Products Foundation  
Inc.  
AXA Foundation  
Bank of America Matching  
Gifts Program  
Bank of America United  
Way Campaign  
Bank of The West  
Barclays Global Investors  
Matching Gift Program  
The Boeing Company  
CA, Inc.  
Chevron Humankind  
Employee Funds  
City of Seattle  
CNA Foundation  
Community Foundation of  
Central Illinois  
Countrywide  
DirecTV  
Employee's Community  
Fund of the Boeing  
Company  
Environmental Federation  
of California  
The Fremont Group  
Foundation  
Gap Inc. Giving/Matching  
Campaign  
Genentech Givingstation  
GivingExpress Program  
from American Express  
GlaxoSmithKline  
Foundation  
Global Impact - Applied  
Materials  
Global Impact - BT  
Americas Employee  
Char. Giving Program  
Global Impact - Symantec  
Global Impact - Tellabs

Global Impact- Yahoo  
Google  
Hewlett Packard  
Foundation  
IBM Matching Grants  
Program  
Indiana State Employees  
Community Campaign  
ING Foundation  
Intuit Foundation -  
Matching Gift Program  
Johnson & Johnson  
Matching Gifts Program  
The JP Morgan Chase & Co  
JPMorgan Chase Bank  
Kaiser Permanente  
Community Giving  
Campaign  
KPMG  
Lawrence Livermore Lab  
- UC  
Levi Strauss Foundation  
Local Independent  
Charities of America  
Macy's West GIFT  
Barclays Global Investor  
Matching Gift Center  
Merrill Lynch & Co  
Foundation  
Microsoft Giving Campaign  
Program  
Morgan Stanley  
Motorola Foundation  
National Semiconductor  
The New York Times  
Company Foundation  
Matching Gifts Program  
Nike Employee Matching  
Gift Program  
Oracle Corporation  
Matching Gifts  
Pfizer Foundation  
PG&E Corporation  
Campaign for the  
Community  
The Prudential Foundation  
Quadra Foundation  
Qualcomm Inc.  
Regence  
SAP Matching Gifts  
Program  
Schwab Foundation  
Starbucks Matching Gifts  
Program  
Sun Microsystems  
Synopsys Foundation  
Tenet Healthcare  
Foundation  
Truist  
Tycos Matching Gifts  
Program

Union Bank Of Ca.-Non Bay  
Area  
United Airlines  
United Way  
United Way California  
Capital Region  
United Way Of Los Angeles  
United Way of San Diego  
County  
United Way Of The Bay  
Area  
United Way Special  
Distribution Account  
UnitedHealth Group  
Washington Mutual, Inc.  
Waters Corporation  
Wells Fargo Community  
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Community Thrift Store  
Deborah R. Gabris  
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Bank of America  
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PG&E  
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The Wall Street Journal  
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Fages

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Winery  
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Betty and William Hasler  
Beth Inadomi and Tim  
Newell  
Karen Johnson-McKewan  
and  
Tom McKewan  
Sunny and Mark McKee  
Janecke and Peter Stauffer

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Waltraud Finch  
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Marcia & John Goldman  
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McCormick & Kuleto's  
Restaurant  
Run100s.com  
Gayle & Lloyd Smalley  
Beverly Spector & Ken  
Lipson  
Patricia Zuch & William  
Werner

**SPECIAL  
ACKNOWLEDGMENT**

Drew Altizer  
American Audiovisual  
Susan Anthony  
Aquarium of the Bay  
Marjorie Boor  
Richard Cassam  
The Economist  
Susan Grau  
Dr. Frances Gulland  
The Inn at Spanish Bay,  
Pebble Beach  
Kate's Blossoms of  
Sausalito  
Dr. Charles Littnan  
Merrill Magowan  
Jeff Massanari Trio  
McCormick & Kuleto's  
Restaurant  
Nick's Cove  
PIER 39  
Kathy Reilly  
Colleen Buckley-Reynolds  
& David Reynolds

The Ritz Carlton Staff  
San Francisco Chronicle  
San Francisco Giants  
Frank Vega  
West Marine

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Rosenthal  
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William Bradley  
Wendy Brainerd  
Pat Callahan  
Chad and Ed Carlson  
Chronicle Books  
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Lim  
Cyndi Connors  
Michel and Laura Conrad  
Kenneth A. Coren  
Janis and Michael  
Crawford  
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Sherrill Dunning-Riley  
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Rod Morgan  
Christina Fairbanks  
Maria Falzone  
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Sheila Giannini  
Val and Jerry Gibbons  
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Bettina Glenning  
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Google  
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Lynne Hermle and Craig  
Collins  
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Beth Inadomi and Tim  
Newell  
Eric Joe  
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Karen Johnson-McKewan  
and  
Tom McKewan  
Susan Kagan Waitkus  
Vladimir Kats  
Marie Kazan-Komarek  
Tera Killip  
Michael Kleeman

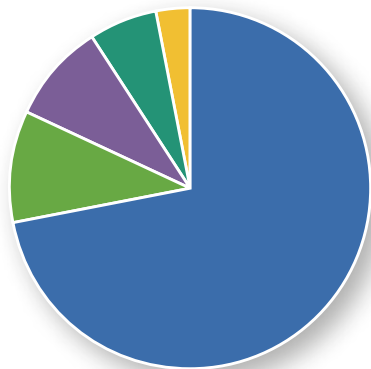
Catherine Kruttschnitt  
Kathryn Edward and  
Kermit Kubitz  
Jennifer and William  
Larzelere  
Joanne L. Lasnier  
Glen Mathison and Zoel  
Fages  
Mary Ann McCleary  
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Edwina and Michael Mule  
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Jean and Phil Warren  
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.....



# FINANCIAL SUMMARY

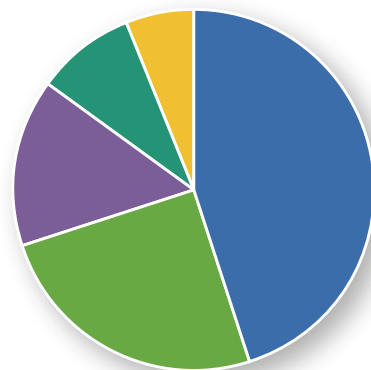
September 30, 2009

## SUPPORT AND REVENUE



■ Contributions from foundations, corporations, members and individuals	72%
■ Donated materials and services	10%
■ Education programs and retail revenue	9%
■ Other revenue	6%
■ Government grants and contracts	3%

## EXPENDITURES



■ Veterinary science and animal rehabilitation	46%
■ Education programs and retail cost of sales	24%
■ Fundraising-Operations	15%
■ Supporting Services	9%
■ Fundraising-Capital Campaign	6%

## Statement of financial position

### ASSETS

Cash and cash equivalents	1,136,346
Short-term investments	57,642
Contributions receivable	2,590,909
Investments at market	1,516,191
Inventories	154,064
Equipment and structures	29,383,154
Deposits and prepaid expenses	125,009
<b>Total Assets</b>	<b>34,963,315</b>

### LIABILITIES

Accounts payable	977,623
Notes payable	2,950,000
Accrued liabilities	431,084
<b>Total Liabilities</b>	<b>4,358,707</b>

### NET ASSETS

Unrestricted	29,498,794
Temporarily restricted	489,710
Permanently restricted	616,104
<b>Total Net Assets</b>	<b>30,604,608</b>
<b>Total Liabilities and Net Assets</b>	<b>34,963,315</b>

Audited financial statements for the year ended September 30, 2009, prepared by Louie & Wong, are available at The Marine Mammal Center's administrative offices, Chief Financial and Operations Officer, 415-289-7336.

## Statement of activities

### SUPPORT AND REVENUE

Membership dues	1,061,766
Private contributions	3,533,449
Government contributions	200,279
Endowment funds	88,399
Contributed services and equipment <sup>1</sup>	637,200
Educational programs	85,236
Store sales	477,965
Interest income	132,006
Other revenue	88,871
Special event revenue, net of expense	92,198
Realized and unrealized net gains on investments	80,573
<b>Total Support and Revenue <sup>2</sup></b>	<b>6,477,942</b>

### EXPENDITURES

Program services:	
Veterinary science	3,219,974
Educational programs	1,724,353
Fundraising:	
Operations	1,050,253
Capital Campaign	398,942
Supporting Services	623,579
<b>Total Expenditures <sup>1</sup></b>	<b>7,017,101</b>
<b>Change in Net Assets <sup>3</sup></b>	<b>(539,159)</b>

(1) Not included are 104,000 hours of volunteer services, valued at \$1,200,000 based on California minimum wage, that were received during the fiscal year ending September 30, 2009.

(2) Total support and revenue includes \$273,000 from the capital campaign.

(3) The net deficit relates primarily to increased depreciation from our new Sausalito facility.



## The Marine Mammal Center®

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F 415.289.7333  
[www.MarineMammalCenter.org](http://www.MarineMammalCenter.org)

Monterey Bay:  
PO Box 778  
Moss Landing, CA 95039  
T 831.633.6298  
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San Luis Obispo:  
1385 Main Street  
Morro Bay, CA 93442  
T 805.771.8300  
F 805.771.8304

Anchor Bay-Fort Bragg:  
T 415.289.SEAL

### Our mission

To expand knowledge about marine mammals – their health and that of their ocean environment – and inspire their global conservation.

### Our work

Our core work is the **rescue and rehabilitation** of sick and injured marine mammals, supported by state-of-the-art animal care and research facilities, a corps of dedicated volunteers, and an engaged community. We partner with leading scientists and other professionals in order to learn from the patients in our care – patients from healthy, endangered, and at-risk populations – and to **expand and advance scientific knowledge**, thus enhancing understanding of the health of our oceans and the implications for human health. We **disseminate knowledge** to members of the scientific community and the general public. We ultimately inspire action and foster stewardship towards the care of our environment.

### Our values

- Respect for the innate importance of each animal in our care.
- Respect for the environment in which our patients live and that we share.
- A commitment to uphold the highest standards of animal care and animal welfare.
- A rigorous pursuit of science and a commitment to scientific integrity.
- Appreciation for the invaluable contributions of our volunteers, without whom we could not exist.
- Recognition that all members of our community – volunteers, donors, staff, and directors – are essential to the pursuit and success of our mission and deserve our respect.
- A pursuit of our mission that encourages innovation, collaboration, and teamwork.