



The Mesoamerican Reef
2013 Calendar



Cell Signaling Technology

Commitment to the Environment

Observing and understanding the array of interactions that shape the living planet on a global level is just as fascinating to us as the complex molecular interactions involved in cellular signaling. The fundamental inter-relationship between ourselves and the biosphere inspires us to draw attention to the magnificence of nature and some of the organizations that struggle to protect it. This year we dedicate pages in our catalog, our annual nature calendar, and the Cell Signaling Technology (CST) nature conservancy website to raising awareness about the Mesoamerican Reef.

As part of this effort, CST continues to support nonprofit environmental organizations making a difference in managing, protecting, and conserving the earth's natural resources and the ecosystems that sustain all life. This year, we are supporting four organizations. Please go to eco.cellsignal.com to learn more.

Sustainability at CST

Concern for how CST impacts our community and the planet gave rise to the CST Green Committee in 2001. Members of the Green Committee are employees from nearly every department who meet monthly to discuss and implement sustainable practices into our business model. Some of our sustainability initiatives include a Transportation Management Plan, a Waste Diversion Program, a LEED Certified Facility, and an Energy Management Program. Please go to cellsignal.com/about to read more.



EcoLogic Development Fund

The EcoLogic Development Fund empowers rural and indigenous peoples to restore and protect tropical ecosystems in Central America and Mexico. We collaborate with local communities to put in place strategies and solutions to increase their self-sufficiency, environmental health, and adaptability in response to climate change in ways that also encourage the long-term survival of the biodiversity around them. www.ecologic.org

Southern Environmental Association (SEA)

SEA is a Belizean non-governmental organization working towards improving stewardship and the environmental integrity of key marine areas in southern Belize through effective, collaborative protected areas management, community involvement, and strategic partnerships for the benefit of all stakeholders.

SEA co-manages three important marine protected areas in Southern Belize: Gladden Spit and Silk Cayes Marine Reserve, the Sapodilla Cayes Marine Reserve and the Laughing Bird Caye National Park. Both Laughing Bird Caye National Park and Sapodilla Cayes Marine Reserve form a part of the Belize Barrier Reef Reserve System declared by UNESCO in 1996 as a world heritage site. www.seabelize.org

Toledo Institute for Development and Environment (TIDE)

TIDE is a Belizean non-governmental organization that fosters community participation in resource management and sustainable use of ecosystems within the Maya Mountain Marine Corridor of southern Belize for the benefit of present and future generations. www.tidebelize.org

Large Pelagic Research Center (LPRC)

LPRC is modeled after the Pelagic Fisheries Research Group (PFRP) in the Pacific, LPRC began as a Center to stimulate and conduct research on key species of interest to commercial and recreational fisheries and marine ecosystems in the Atlantic Ocean. The Center, established in 2003 at the University of New Hampshire, functioned as an academic research group and as a coordinator and source of extramural funding for other large pelagic species research.

In 2010, LPRC joined the Department of Environmental Conservation at the University of Massachusetts-Amherst and the Graduate School of Marine Science. We are located in Gloucester, MA and, as part of the Massachusetts Marine Fisheries Institute, are working to revitalize the UMass Marine Station at Gloucester's Hodgkins Cove. www.tunalab.org

All photographs taken by Tony Rath/tonyrath.com



January

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SCIENTIFIC CONFERENCES January 8 – 11: Cambridge Healthtech Institute's 10th Annual High Content Analysis Meeting, San Francisco, CA January 10 – 15: Keystone Symposium: Type 2 Immunity: Initiation, Maintenance, Homeostasis and Pathology, Santa Fe, NM January 12 – 16: 2nd Annual Conference and Exhibition for the Society of Laboratory Automation and Screening, Orlando, FL		January 14 – 19: Keystone Symposium: Hematopoiesis, Steamboat Springs, CO January 15 – 20: Keystone Symposium: Emerging Topics in Immune System Plasticity: Cellular Networks, Metabolic Control and Regeneration, Santa Fe, NM January 16 – 18: EpiGenesys Annual Meeting 2013, Amsterdam, The Netherlands		January 17 – 19: EMBO Workshop: Dr. Jekyll and Mr. Hyde: The Macrophage in Inflammation and Immunity, Marseille, France January 20 – 23: AACR: Tumor Invasion and Metastasis, San Diego, CA January 20 – 25: Gordon Research Conference: Directed Cell Migration, Galveston, TX		January 21 – 25: Cambridge Healthtech Institute's 12th Annual PEPTALK: The Protein Science Week, Palm Springs, CA January 21 – 26: Keystone Symposium: Metabolic Control of Inflammation and Immunity, Breckenridge, CO January 23 – 27: EMBO Workshop: Cycling to Death, Obergurgl, Austria		January 27 – February 1: Keystone Symposium: Diabetes-New Insights into Mechanism of Disease and its Treatment, Keystone, CO Keystone Symposium: Cancer Immunology and Immunotherapy, Vancouver, British Columbia, Canada Gordon Research Conference: Vascular Cell Biology, Ventura, CA January 29 – 30: BIO Asia International Conference, Tokyo, Japan				Mesoamerican Reef Extending more than 600 miles from Isla Contoy, a bird sanctuary near the Yucatan Peninsula, to the Bay Islands of Honduras, the Mesoamerican Reef is the largest barrier reef in the Western Hemisphere and the second largest in the world. About one-third of this natural wonder, and arguably the choicest stretch of reef, lies off the coast of Belize. Please go to eco.cellsignal.com/meso to read more.																																																																																												



February

Mangrove tree on south beach at Southwater Caye, Belize. © Tony Rath/tonyrath.com

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Valentine's Day

Presidents' Day

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SCIENTIFIC CONFERENCES

February 3 – 8: Keystone Symposium: Mitochondria, Metabolism and Myocardial Function-Basic Advances to Translational Studies, Keystone, CO | Keystone Symposium: New Frontiers in Neurodegenerative Disease Research, Santa Fe, NM | Keystone Symposium: Neurogenesis, Santa Fe, NM

February 5 – 10: Keystone Symposium: Lung Development, Cancer and Disease, Taos, NM

February 6 – 9: Joint Meeting of 2nd World Congress of Cutaneous Lymphomas and 6th International Symposium on the Biology and Immunology of Cutaneous Lymphoma, Berlin, Germany

February 7 – 10: 18th Annual Proteomics Symposium of the Australasian Proteomics Society, Lorne, Victoria, Australia

February 10 – 14: 38th Lorne Conference on Protein Structure and Function, Lorne, Victoria, Australia

February 10 – 15: Keystone Symposium: B Cell Development and Function, Keystone, CO | Gordon Research Conference: Fibronectin, Integrins and Related Molecules, Ventura, CA | Gordon Research Conference: Mammalian DNA Repair, Ventura, CA

February 17 – 22: Keystone Symposium: Autophagy, Inflammation and Immunity, Montreal, Quebec, Canada

February 19 – 24: Keystone Symposium: Nutrition, Epigenetics and Human Disease, Santa Fe, NM | Keystone Symposium: Myeloid Cells: Regulation and Inflammation, Keystone, CO

February 21 – 25: 9th AACR-JCA Joint Conference: Breakthroughs in Basic and Translational Cancer Research, Maui, HI

February 24 – March 1: Keystone Symposium: Stem Cell Regulation in Homeostasis and Disease, Banff, Alberta, Canada | Keystone Symposium: PI 3-Kinase and Interplay with Other Signaling Pathways, Keystone, CO | Keystone Symposium: Tumor Metabolism, Keystone, CO



Turning the TIDE

Eighteen marine protected areas (MPAs)—underwater parks where fishing and other human activities are regulated—have been created in Belize to protect the Mesoamerican Reef, its critical habitats, and the biodiversity it harbors. In 1996 UNESCO designated the Belize Barrier Reef Reserve System as a World Heritage site. Please go to eco.cellsignal.com/tide to read more.



March

Nurse Sharks (*Ginglymostoma cirratum*) at Stingray Alley, Ambergris Caye, Belize. © Tony Rath/tonyrath.com

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SCIENTIFIC CONFERENCES March 1 – 2: ESMO Symposia 2013: Signaling Pathways in Cancer, Barcelona, Spain March 2 – 5: ABRF 2013: An International Symposium of the Association of Biomolecular Resource Facilities, Palm Springs, CA March 2 – 8: United States and Canadian Academy of Pathology 102nd Annual Meeting, Baltimore, MD				March 3 – 8: Keystone Symposium: Genomic Instability and DNA Repair, Banff, Alberta, Canada March 3 – 8: Keystone Symposium: Understanding Dendritic Cell Biology to Advance Disease Therapies, Keystone, CO March 4 – 6: TAT 2013: 11th International Congress on Targeted Anti-Cancer Therapies, Paris, France				March 6 – 10: 11th International Conference on Alzheimer's and Parkinson's Diseases, Florence, Italy March 10 – 13: 9th Annual US HUPD Conference, Baltimore, MD March 10 – 15: Keystone Symposium: Growing to Extremes: Cell Biology and Pathology of Axons, Tahoe City, CA March 11 – 13: BIO-Europe Spring 2013, Barcelona, Spain				March 13 – 16: World Immune Regulation Meeting-VII, Davos, Switzerland March 17 – 20: Joint Meeting of the British Societies for Cell Biology and Developmental Biology, Coventry, United Kingdom March 17 – 21: PITTCON Conference and Expo 2013, Philadelphia, PA March 17 – 21: Proteomic Forum 2013, Berlin, Germany				March 17 – 22: Keystone Symposium: Neuronal Control of Appetite, Metabolism and Weight, Banff, Alberta, Canada March 17 – 22: Gordon Research Conference: Insulin-Like Growth Factors in Physiology and Disease, Ventura, CA March 20 – 23: Joint Meeting of the German Society for Cell Biology and the German Society for Developmental Biology, Heidelberg, Germany				March 20 – 25: Keystone Symposium: Epigenetic Marks and Cancer Drugs, Santa Fe, NM March 21 – 23: 86th Annual Meeting of the Japanese Pharmacological Society, Fukuoka, Japan March 21 – 23: 12th Congress of the Japanese Society for Regenerative Medicine, Yokohama, Japan																																																																												



April

Bottle nose dolphins (*Tursiops truncatus*) in Gladden Spit and Silk Cayes Marine Reserve, off the coast of Placencia, Stann Creek, Belize. © Tony Rath/tonyrath.com

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SCIENTIFIC CONFERENCES

April 3 – 8: Keystone Symposium: Nuclear Receptors and Friends: Roles in Energy Homeostasis and Metabolic Dysfunction, Alpbach, Austria

April 4 – 9: Keystone Symposium: Immunopathology of Type 1 Diabetes, Whistler, British Columbia, Canada | Keystone Symposium: Advances in the Knowledge and Treatment of Autoimmunity, Whistler, British Columbia, Canada

April 6 – 10: American Association for Cancer Research 104th Annual Meeting 2013, Washington, D.C.

April 14 – 19: Gordon Research Conference: Oxidative Stress and Disease, The Metabolic-Inflammatory Axis in Brain Aging and Alzheimer's Disease, Les Diablerets, Switzerland

April 15 – 17: British Society for Haematology 53rd Annual Scientific Meeting, Liverpool, United Kingdom

April 19 – 21: National Cell Biology Conference, Wu Han, China

April 20 – 24: Experimental Biology 2013, Boston, MA

April 21 – 26: Gordon Research Conference: Cancer Genetics and Epigenetics, Lucca (Barga), Italy | Gordon Research Conference: Stem Cells and Cancer, Stem Cell Features in Cancer and Metastasis, Les Diablerets, Switzerland

April 22 – 25: BIO International Convention, Chicago, IL

April 29 – May 3: Cambridge Healthtech Institute's 9th Annual PEGS Summit 2013, Boston, MA



Southern Environmental Association (SEA)

SEA is a Belizean non-governmental organization working towards improving stewardship and the environmental integrity of key marine areas in southern Belize through effective, collaborative protected areas management, community involvement, and strategic partnerships for the benefit of all stakeholders. Please go to www.seabelize.org to learn more.





June

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SCIENTIFIC CONFERENCES

May 31 – June 4: 2013 American Society of Clinical Oncology Annual Meeting, Chicago, IL
June 2 – 7: Gordon Research Conference: Cell Contact and Adhesion, Lucca (Barga), Italy
June 2 – 7: Gordon Research Conference: Neurotrophic Factors, Newport, RI
June 6 – 8: 102nd Annual Meeting of the Japanese Society of Pathology, Sapporo, Japan

June 7 – 10: EMBO/EMBL Symposium: Cardiac Biology: From Development to Regenerative Medicine, Heidelberg, Germany
June 9 – 13: 61st ASMS Conference on Mass Spectrometry, Minneapolis, MN
June 9 – 14: FASEB SRC: Signal Transduction in the Immune System, Nassau, Bahamas

June 12 – 14: 17th Annual Meeting of the Japanese Association for Molecular Target Therapy of Cancer, Kyoto, Japan
June 12 – 15: International Society for Stem Cell Research 11th Annual Meeting, Boston, MA
June 15 – 18: ENDO 2013: The Endocrine Society's 95th Annual Meeting and Expo, San Francisco, CA

June 16 – 21: FASEB SRC: Transcription, Chromatin and Epigenetics, Nassau, Bahamas
June 16 – 21: Gordon Research Conference: Proteins, Holderness, NH
June 16 – 21: Gordon Research Conference: Calcium Signaling, Lucca (Barga), Italy
June 16 – 21: Gordon Research Conference: Atherosclerosis, Stowe, VT

June 17 – 21: Keystone Symposium: Human Genomics and Personalized Medicine, Stockholm, Sweden
June 19 – 21: 65th Annual Meeting of the Japanese Society for Cell Biology, Aichi, Japan
June 19 – 22: AACR: Chromatin Remodeling in Cancer, Atlanta, GA
June 20 – 23: 36th Annual Meeting of the Japan Neuroscience Society, Kyoto, Japan

June 20 – 23: 56th Annual Meeting of the Japanese Society for Neurochemistry, Kyoto, Japan
June 20 – 23: 23rd Annual Conference of the Japanese Neural Network Society, Kyoto, Japan
June 21 – 25: American Diabetes Association's 73rd Scientific Sessions, Chicago, IL
June 23 – 28: Gordon Research Conference: Apoptotic Cell Recognition and Clearance, Biddeford, ME

June 23 – 28: Gordon Research Conference: Cell Growth and Proliferation, West Dover, VT
June 30 – July 5: Gordon Research Conference: Developmental Biology, Lucca (Barga), Italy
June 30 – July 13: EMBO Practical Course: Developmental Neurobiology: From Worms to Mammals, London, United Kingdom



July

Black grouper, (*Mycteroperca bonaci*) and Horse-eye Jacks, (*Caranx latus*), Hol Chan Marine Reserve, Ambergris Caye, Belize. © Tony Rath/tonyrath.com

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SCIENTIFIC CONFERENCES

June 30 – July 5: Gordon Research Conference: Developmental Biology, Lucca (Barga), Italy

June 30 – July 13: EMBO Practical Course: Developmental Neurobiology: From Worms to Mammals, London, United Kingdom

July 4 – 5: 17th Annual Meeting of Japanese Association of Cancer Immunology, Yamaguchi, Japan

July 6 – 11: 38th FEBS Congress, St. Petersburg, Russia

July 7 – 10: 14th International TNF Conference: Tumor Necrosis Factor 2013, Quebec City, Quebec, Canada

July 7 – 12: FASEB SRC: Autoimmunity, Saxtons River, VT

July 7 – 12: Gordon Research Conference: Stress Proteins in Growth, Development and Disease, West Dover, VT

July 7 – 12: Gordon Research Conference: Myogenesis, Mechanisms and Models, Lucca (Barga), Italy

July 14 – 19: FASEB SRC: NAD Metabolism and Signaling, Chicago, IL

July 14 – 19: FASEB SRC: Molecular Mechanisms of Lymphocyte Development and Function, Steamboat Springs, CO

July 14 – 19: FASEB SRC: Protein Lipidation, Signaling, and Membrane Domains, Saxtons River, VT

July 14 – 19: FASEB SRC: Glucose Transport: Gateway for Metabolic Systems Biology, Snowmass Village, CO

July 20 – 24: 27th Annual Symposium of The Protein Society, Boston, MA

July 21 – 26: FASEB SRC: Protein Kinases and Protein Phosphorylation, Niagra Falls, NY

July 21 – 26: Gordon Research Conference: Lipids, Molecular and Cellular Biology of, Waterville Valley, NH

July 23 – 25: 5th Annual Ubiquitin Drug Discovery 2013, Philadelphia, PA

July 28 – August 2: Gordon Research Conference: Posttranslational Modification Networks, Phosphosignaling, Hong Kong, China

July 28 – August 2: FASEB SRC: The TGF- β Superfamily: Signaling in Development and Diseases, Steamboat Springs, CO



August

Mustard Hill Coral (*Porites astreoides*) patch in seagrass (*Thalassia*), South Water Caye, Belize. © Tony Rath/tonyrath.com

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建军节

七夕

SCIENTIFIC CONFERENCES

July 28 – August 2: FASEB SRC: The TGF- β Superfamily: Signaling in Development and Diseases, Steamboat Springs, CO

July 28 – August 2: Gordon Research Conference: Posttranslational Modification Networks, Phosphosignaling, Hong Kong, China

August 4 – 9: Gordon Research Conference: Angiogenesis, Newport, RI

August 4 – 9: Gordon Research Conference: Epigenetics, Smithfield, RI

August 18 – 23: Gordon Research Conference: Lung Development, Injury and Repair, Andover, NH

August 22 – 25: 42nd Annual Scientific Meeting of the Society for Hematology and Stem Cells (ISEH), Vienna, Austria

August 22 – 27: 15th International Congress of Immunology, Milan, Italy

August 31 – September 4: 25th European Congress of Pathology, Lisbon, Portugal



Reef Under Fire

The Mesoamerican Reef lies just a half mile from the shore of Belize's top tourist destination, Ambergris Caye, an island in the midst of rapid growth. To find out how nature is bearing up under this strain, the Healthy Reefs Initiative, the World Resources Institute, and other organizations undertook in 2011 the first-ever "Eco-Audit" of the Mesoamerican Reef. Please go to eco.cellsignal.com/underfire to read more.



September

Spotted Cleaner Shrimp (*Periclimenes yucatanicus*) on Sun Anenome (*Stichodactyla helianthus*). © Tony Rath/tonyrath.com

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AUGUST

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SCIENTIFIC CONFERENCES

August 31 – September 4: 25th European Congress of Pathology, Lisbon, Portugal

September 3 – 6: ARVO/ISOCB 2013 Conference, Oxford, United Kingdom

September 9 – 11: 34th British Mass Spectrometry Society Annual Meeting, Eastbourne, United Kingdom

September 11 – 13: 86th Annual Meeting of the Japan Biochemical Society, Yokohama, Japan

September 11 – 14: FENS Featured Regional Meeting, Prague, Czech Republic

September 14 – 18: 12th Annual Human Proteome Organization World Congress, Yokohama, Japan

September 18 – 21: AACR: Advances in Ovarian Cancer Research: From Concept to Clinic, Miami, FL

September 18 – 22: AACR: Frontiers in Basic Cancer Research, National Harbor, MD

September 20 – 26: National Society of Histotechnology 39th Annual Symposium/Convention, Providence, RI

September 21 – 24: 5th EMBO Meeting 2013: Advancing the Life Sciences, Amsterdam, The Netherlands

September 21 – 26: XXI World Congress of Neurology, Vienna, Austria

September 27 – 29: GLIIFCA 2013, Detroit, MI

September 27 – October 1: 17th ECCO-38th ESMO-32nd ESTRO European Cancer Congress, Amsterdam, The Netherlands

September 29 – October 3: Cytokines 2013: 11th Joint Annual Meeting of the ISICR and ICS, San Francisco, CA



EcoLogic Development Fund

The EcoLogic Development Fund empowers rural and indigenous peoples to restore and protect tropical ecosystems in Central America and Mexico. We collaborate with local communities to put in place strategies and solutions to increase their self-sufficiency, environmental health, and adaptability in response to climate change in ways that also encourage the long-term survival of the biodiversity around them. Please go to www.ecologic.org to learn more.



October

Black spiny-tailed Iguana (*Ctenosaura similis*) on southern shore of Middle Caye, Glover's Reef, Belize. © Tony Rath/tonyrath.com

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SCIENTIFIC CONFERENCES

September 27 – October 1: 17th ECCO-38th ESMO-32nd ESTRO European Cancer Congress, Amsterdam, The Netherlands

September 29 – October 3: Cytokines 2013: 11th Joint Annual Meeting of the ISICR and ICS, San Francisco, CA

October 3 – 5: 72nd Annual Meeting of the Japanese Cancer Association, Yokohama, Japan

October 3 – 6: AACR: Advances in Breast Cancer Research, San Diego, CA

October 8 – 10: Biotechnica 2013, Hannover, Germany

October 11 – 15: 28th Annual Clinical Cytometry Meeting and Course, Fort Lauderdale, FL

October 19 – 23: AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, Boston, MA

October 20 – 22: 46th Annual Meeting of the Society for Leukocyte Biology: Regulators of Innate Plasticity, Newport, RI

October 27 – 30: AACR: 12th Annual International Conference on Frontiers in Cancer Prevention Research, National Harbor, MD

October 28 – 31: Asia ARVO, New Delhi, India



Sustainable Tourism and the Reef

Tourism is essential to the economy throughout the Caribbean, employing about one in five people, which makes it the second biggest employer after government, claims Seleni Matus, former director of the Belize Tourism Board. That creates strong incentives to protect the beauty and health of the reef and other natural attractions. Please go to eco.cellsignal.com/tourism to read more.



November

Sunrise over Mangrove at Spanish Bay Resort, Belize. © Tony Rath/tonyrath.com

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SCIENTIFIC CONFERENCES

November 3 – 5: EMBL Conference: Cancer Genomics, Heidelberg, Germany

November 5 – 8: AACR: Animal Models of Cancer, San Diego, CA

November 9 – 13: Neuroscience 2013, 43rd Annual Meeting, San Diego, CA

November 14 – 16: Association for Molecular Pathology 2013 Annual Meeting, Phoenix, AZ



Toledo Institute for Development and Environment (TIDE)

TIDE is a Belizean non-governmental organization that fosters community participation in resource management and sustainable use of ecosystems within the Maya Mountain Marine Corridor of southern Belize for the benefit of present and future generations. Please go to www.tidebelize.org to learn more.



December

Cushion sea star (*Oreaster reticulatus*) sitting in Sea Grass Beds (*Thalassia*), South Water Caye, Belize. © Tony Rath/tonyrath.com

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SCIENTIFIC CONFERENCES

December 3 – 6: 36th Annual Meeting of the Molecular Biology Society of Japan, Kobe, Japan

December 10 – 14: CTRC-AACR San Antonio Breast Cancer Symposium, San Antonio, TX

December 11 – 13: 42nd Annual Meeting of the Japanese Society for Immunology, Chiba, Japan

December 7 – 10: 2013 American Society of Hematology Annual Meeting, New Orleans, LA

December 14 – 18: American Society for Cell Biology 53rd Annual Meeting, New Orleans, LA



Sustainability at Cell Signaling Technology

Concern for how Cell Signaling Technology (CST) impacts our community and the planet gave rise to the CST Green Committee in 2001. Members of the Green Committee are employees from nearly every department who meet monthly to discuss and implement sustainable practices into our business model. Some of our sustainability initiatives include:

Transportation Management Plan: CST has provided infrastructure and incentives that encourage our employees to seek alternative methods of transportation to work such as biking, walking, carpooling and public transportation in an effort to reduce our carbon emissions.

Waste Diversion Program: CST has a comprehensive in-house recycling and composting program that, in the past year, has diverted 75% of our waste from the landfill, equivalent to 200,000 cubic feet of waste or filling two Olympic sized swimming pools with trash!

LEED Certified Facility: Our headquarters in Danvers, Massachusetts was awarded the Leadership in Energy and Environmental Design (LEED) Certification in 2006 and is one of a small number of labs in the United States with this distinction.

Please go to cellsignal.com/about to read more.



Aerial of the Great Blue Hole on Lighthouse Reef taken from Lighthawk flight, Belize.
© Tony Rath/tonyrath.com

The Mesoamerican Reef

Extending more than 600 miles from Isla Contoy, a bird sanctuary near the Yucatan Peninsula, to the Bay Islands of Honduras, the Mesoamerican Reef is the largest barrier reef in the Western Hemisphere and the second largest in the world. About one-third of this natural wonder, and arguably the choicest stretch of reef, lies off the coast of Belize. Charles Darwin once described this complex—consisting of dazzling corals, crystal clear blue waters, and a host of aquatic denizens—as “the most remarkable reef in the West Indies.”

Coral reefs are biologically diverse and productive ecosystems, occupying just 0.1% of the oceans by area, while providing a home to about one quarter of all marine species. The Mesoamerican Reef is no exception in this regard. Bordered by seagrass beds, coastal wetlands, mangrove forests, lagoons, and white sand beaches, the reef supports a wide range of fauna: more than 60 species of coral; more than 500 species of fish (including whale sharks, the biggest fish on Earth); about 350 species of mollusks; a variety of dolphins, sea turtles, rays, and eels; the endangered American saltwater crocodile and Morelet's crocodile; and one of the world's largest populations of West Indian manatees. But there is much more, as marine biologists believe that about 90% of all reef species—especially small invertebrates—still remain to be discovered.

The Mesoamerican Reef provides a natural barrier to storms and hurricanes, blunting about 75% of the energy of incoming waves. That protection is not only crucial to the survival of plants and animals but also provides a margin of comfort to the more than two million people—in Mexico, Belize, Guatemala, and Honduras—who live along the coast. Beyond the aesthetic appeal of the rainbow-colored corals and fish, the reef is also a tremendous economic asset to the region. In Belize alone, it has been estimated that the reef brings in about \$500 million to the local economy each year through the tourism and fishing industries.

But all is not perfect in this would-be tropical paradise. Much has changed since Darwin's commentary in 1842, and—from an ecological standpoint—not for the better. Like many of the world's reef systems, the Mesoamerican Reef is under siege from a host of human-induced and natural threats that include overfishing, pollution, unchecked coastal development, global warming, and hurricanes. Taken collectively, these threats challenge the very existence of this fantastic coral edifice, jeopardizing the marine creatures that it supports and the people who depend on this unique ecosystem for food, recreation, and their livelihoods.

About the photographer: Tony Rath is a trained marine biologist and has worked as a diver and underwater photographer for the Smithsonian Institution; diving on oil rigs off California; and captaining a sailboat across the Atlantic Ocean and through the Mediterranean and North Seas. Tony first visited Belize in 1979, and moved there permanently in 1988. Since then he has explored and photographed most of Belize by land, sea and air. He has also photographed the neighboring countries of Honduras, Guatemala and Mexico.



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Belgium/Luxembourg **BIOKÉ:** Tel: 0800-71640 | www.bioke.com

Brazil **Uniscience Do Brazil:** Tel: (011) 3622 2320 | www.uniscience.com

Canada **New England Biolabs Ltd.:** Toll Free: 1-800-387-1095 | www.neb.ca

Chile **Genetica Y Tecnologia Ltda.:** Tel: 56-2-633 52 69 | www.genytec.cl

Colombia/Panama **Bio Products, Inc. dba Subiotech Ltda.:** Tel: 561-434-2121 | www.bioproducts.net

Croatia **Diagnostica Skalpeli d.o.o.:** Tel: 01/3778 484 | www.skalpeli.hr

Czech Republic **Biotech A.s.:** Toll Free: +420 800124683 | www.biotech.cz

Denmark **BioNordika Denmark:** Tel: +45 39 56 20 00 | www.bionordika.dk

Estonia/Latvia/Lithuania **BioNordika Baltic:** Tel: +372 630 65 20 | www.bionordika.ee

Finland **Fisher Scientific:** Tel: +358 9 8027 6280 | www.fishersci.fi

France **Ozyme:** Tel: (1) 34 60 24 24 | www.ozyme.fr

Germany/Austria **New England Biolabs GmbH:** Tel: +49/ (0) 69 305 23140 | www.neb-online.de

Greece **Bioline Scientific:** Tel: +30 210 5226547 | www.bioline.gr

Hong Kong **Gene Company Limited:** Tel: (852) 2896-6283 | www.genehk.com

Hungary **Kvalitex Kft.:** Tel: (36) 1340-4700 | www.kvalitex.hu

Iceland **Groco ehf:** Tel: +354-568-8533 | www.groco.is

India **Labmate (Asia) Pvt Ltd.:** Tel: 44 222 000 66 | www.labmateasia.com

Indonesia **P T Research Biolabs:** Tel: 62-21-5859365 | E-mail: Indonesia@researchbiolabs.com

Republic of Ireland **Brennan and Company:** Tel: +353 1 295 2501 | www.brennanco.ie

Israel **Eldan Electronic Instruments Co., Ltd:** Tel: (3) 9371132 | www.eldan.biz

Italy **Euroclone:** Toll Free: 800-315911 | www.euroclonegroup.it

Korea **Koram Biogen Corp.:** Tel: (02) 556-0311 | www.korambiotech.com

Malaysia **Research Biolabs Sdn Bhd:** Tel: +60 (3) 7981-5510 | www.researchbiolabs.com

Mexico **Quimica Valaner S. a. De C. v.:** Tel: 5525-5725 | www.valaner.com

The Netherlands **BIOKÉ:** Tel: +31 (0)71 568 1000 | www.bioke.com

New Zealand **Thermo Fisher Scientific NZ:** Tel: 0800 933 966 | www.thermofisher.co.nz

Norway **BioNordika Norway:** Tel: 47 67111460 | www.bionordika.no

Poland **Lab-JOT Ltd. Sp. z o.o.:** Tel: +48 22 7585907 | www.labjot.com

Portugal **Izasa Lisbon:** Tel: + (351) 214247312 | www.izasa.es

Republic of Serbia **CTR Co.:** Tel: +381112691315 | www.ihmctr.com

Singapore **Research Biolabs Pte Ltd:** Tel: +65 6777 5366 | www.researchbiolabs.com

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Slovenia **Mikro+Polo d.o.o.:** Tel: +386 2 / 614 33 00 | www.mikro-polo.com

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Spain **Izasa, S. a.:** Tel: (34) 902 20 30 90 | www.izasa.es

Sweden **BioNordika Sweden:** Tel: +46 8 30 60 10 | www.bionordika.se

Switzerland **BioConcept:** Tel: +41 61 486 80 80 | www.bioconcept.ch

Taiwan **Taigen Bioscience Corp.:** Tel: (02) 28802913 | www.taigen.com

Thailand **Theera Trading Co. Ltd.:** Tel: (02) 412-5672 | www.theetrad.com

Turkey **Sacem Hayat Teknolojileri:** Tel: +90312 397 77 46 | www.sacem.com.tr

United Kingdom **New England Biolabs (UK) Ltd.:** Toll Free: 0800 318486 | www.neb.uk.com

Uruguay **Buro Ltda:** Tel: (5982) 7074318 | E-mail: buro@st.com.uy

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