Recycling of Plastics: There’s Hope on the Horizon

By David Rousseau, Conservation Committee and Zero Waste Subcommittee

I am eager to share with you an exciting new way of recycling plastics. Plastics plague the ocean, our beaches, and are now found in nearly every living thing.

You’re probably familiar with the conventional ways of recycling plastics, aka polymers, where the containers get sorted by type, cleaned, and melted down and turned into pellets, to become new containers. What you might not have heard of is a new technique that can break plastic down into its basic building blocks—monomers.

A polymer is a large molecule composed of many repeated subunits. A monomer is a single molecule. Poly = many. Mono = one. Polystyrene, for example, is a synthetic molecule made of a large chain of styrene monomers (made from benzene) that form huge hydrogen and carbon atoms that are linked together.

How do we break plastics into monomers? There are recycling processes that use chemical catalysts or enzymes to turn plastic polymers back into individual monomers, and then recombine them into the pure polymers for reuse. The chemicals only work on the plastics, so any dirt or food residue on the plastics is not an issue. This offers great promise since China, Indonesia, Malaysia, and others are now rejecting anything but nearly clean plastic.

This new process uses enzymes and catalysts. You can think of enzymes and catalysts as keys that unlock chemicals. When a catalyst comes in contact with a specific chemical, it breaks that chemical apart. And like a key, the catalyst isn’t used up or destroyed in the process. It can continue to work on the more chemicals that it comes in contact with.

The chemical building blocks of plastics are selectively recovered by catalysts or enzymes and re-polymerized endlessly, giving them the same qualities as brand-new resin. Chemical recycling could allow up to 95% of all plastic materials to be reused over and over again. There are a variety of processes, all of which avoid burning of plastics.

Recycling of Solid Plastic Waste

Currently, the most common method of recycling plastic waste is mechanical. Each type of plastic waste must be physically separated so that each polymer (such as polyethylene terephthalate (PET), high-density polyethylene (HDPE), expanded polystyrene aka Styrofoam (EPS), etc., can be ground up into pellets, leaving

Plastics continued on page 11
What a journey! It has been a wonderful, productive, and grueling couple of years as Chairperson of Sierra Club San Diego. Like many other activists the environmental vandalism of the Trump administration ended my hiatus from activism and reinvigorated people to fight for the environment.

This is my second to the last chair’s column as a newly-elected Executive Committee takes over in December. Be sure to vote in our Executive Committee election! The ballot and candidate bios are in this issue! We have excellent candidates! As a Sierra Club officer I had three goals: complete reinstatement of Sierra Club San Diego by National Sierra Club, broad and effective resistance to the Trump administration’s war on the environment, and greater collaboration with other environmental organizations. I am happy and proud to say that we have accomplished these goals, though so much work is continuously required.

Last summer, Sierra Club San Diego was fully reinstated with the highest status a chapter can attain! We had our first executive committee election last summer and three outstanding members, Krista Davidson, David Hogan, and Amanda Mascia, were elected ushering in a new generation of fabulous Sierra Club activists on the Excom. Their contributions have been stellar! Now we will elect four more members of the executive committee completing the transition to an all-elected board.

Sierra Club has been at the lead in attempting to resist the Trump administration’s destruction of the environment and demolition of every environmental law. Here in San Diego we have engaged in massive effort to pass local and state environmental policies and elect environmental candidates despite the destructive policies of the U.S. government. Sierra Club has helped pass Climate Action Plans and Community Choice Energy in our local cities. We have successfully sued the county in California State Court over their inadequate Climate Action Plans. We are continuing these lawsuits against the county and filed a new one over the dangerous Otay Village 14 project, located in one of the most fire-prone areas of the state.

We endorsed and helped elect dozens of environmental candidates. We played a role in flipping every Congressional district except one in Southern California, elected a great new person to the San Diego Board of Supervisors, and flipped city councils throughout the county to the greenest they have ever been. We are offering an intensive Environment 101 course for potential environmental candidates. We will continue with our efforts to elect a Country Board of Supervisors that cares about the health and safety of our residents, elect an all-green congressional delegation, and work to elect pro-environment city councils. We are supporting votes of the people that will be on the ballot to stop the dangerous Newland Sierra project and to pass the Save Our San Diego Backcountry Initiative; you will get to vote on these measures next year!

We have collaborated with other environmental organizations here in the country to present a unified front in elections, in conservation efforts, in lobbying, and in court. At times we may have differences, but in the end we need to fight the forces that destroy the environment, not other environmental organizations. On a daily and weekly basis we have joined hands with other organizations including the Endangered Habitats League, San Diego 350, Climate Action Campaign, San Diego Democrats for Environmental Action, Protect our Preserves, Coastkeeper, Surfrider Foundation, Preserve Wild Santee, Rewild Mission Bay, Citizens Coordinate for Century 3, Cleveland National Forest Foundation, Fallbrook Climate Action, League of Women Voters, League of Conservation Voters, Stay Cool for Grandkids, Preserve Calavera, California Native Plant Society, Audubon Society, Environmental Health Coalition, Quality of Life Coalition, Oceana and numerous other local groups working to protect their communities. I hope we can continue such wonderful collaborations on behalf of the environment. Together we are formidable.
San Diego Chapter Executive Committee Ballot & Instructions

All Chapter members are eligible to vote in the Chapter Executive Committee election.

Do I have a Single or Joint membership? The mailing label on this newsletter will indicate whether your household has a single (“SGL”) or joint (“JNT”) membership. This will be found above your name and before your 8-digit membership number.

Examples: JNT 12345678 500 = Joint membership, Membership number (8-digits), No Group— you do not belong to a Group and are not eligible to vote in either Group Executive Committee election.

SGL 12345678 502 = Single membership, Membership number (8-digits), North County Group

JNT 121345678 503 = Joint Membership, Membership number (8-digits), North County Coastal (Coasters) Group.

Executive Committee Election Ballot

San Diego Chapter Executive Committee Ballot – 1-Year term
Vote for no more than two (2) candidates, including write-ins, by marking the box next to a candidate’s name, including write-ins. For JOINT memberships please use the second set of boxes to vote. (The order of candidates’ names was randomly chosen.) VOTE FOR NO MORE THAN 2

☐ ☐ John Harris ☐ ☐ Lisa Ross ☐ ☐ Write In: ____________________________
☐ ☐ Rose Ryan ☐ ☐ Tommy Hough ☐ ☐ Write In: ____________________________
☐ ☐ Melanie Fontana ☐ ☐ Evlyn Andrade-Heymsfield

San Diego Chapter Executive Committee Ballot – 3-Year term
Vote for no more than two (2) candidates, including write-ins, by marking the box next to a candidate’s name, including write-ins. For JOINT memberships please use the second set of boxes to vote. (The order of candidates’ names was randomly chosen.) VOTE FOR NO MORE THAN 2

☐ ☐ Dan McAllister ☐ ☐ David Rousseau ☐ ☐ Write In: ____________________________
☐ ☐ Joseph Bassett ☐ ☐ Cody Petterson ☐ ☐ Write In: ____________________________

All ballots must be received by 5 p.m., Tuesday, November 12, 2019.
Ballots should be mailed or hand delivered to:
Elections-San Diego Chapter Sierra Club
8304 Clairemont Mesa Blvd. #101,
San Diego, CA 92111

Executive Committee Statements – 1-Year term

John Harris

My name is John Harris. I believe that a life outdoors is a life well spent. I have lived my life in pursuit of protecting our wild places, preserving our open spaces, and advocating for sustainable development.

The 21st century represents a crossroads in the development of human civilization. Climate change, deforestation, ocean acidification, mass extinction, and desertification are all drastic problems, affecting millions of people, and the ecosystems we depend on, worldwide-- including our beautiful home of San Diego.

These gigantic problems will necessitate drastic solutions. We as a society must make the choice that our wild places and open spaces must be preserved, and organize ourselves in cities and communities that are sustainable, resilient, and livable for all.

As a member of the Sierra Club Executive Committee I will vigorously fight for the protection of our wild places and open spaces, and ensure that future development in the San Diego region is sustainable and accessible to all members of our beautiful community. I will fight to ensure that our protected lands stay protected, to build more parks and preserve open spaces throughout San Diego, and ensure elected officials provide sustainable solutions to the problems we face. Thank you.

Lisa Ross

Lisa Ross is a writer, communications strategist and photographer. Over 30 years, she has helped shape San Diego public policy through advocacy, political campaigning, and grass-roots organizing.

Recognized by the San Diego Press Club and Society for Professional Journalism, her op-ed’s, many focussed on environmental planning, have appeared in the country’s most influential newspapers and on public radio.

Lisa has managed field operations, fundraising, communications and press relations for local and national campaigns.

She was a strategist for some of San Diego’s most important land-use ballot measures which created habitat preserves while defining appropriate areas for clustered housing and commercial development in north city.

Lisa was a Carmel Valley Planning Board Member, Del Mar Mesa Planning Board.

ExCom Statements continued on page 5

How to Vote: You must write your membership number on the outside of your mailing envelope (below your return address is a good place). Your membership number is required for your vote to count (this is how the election committees can verify that you are a member). Your membership number is the eight (8) digit number that appears above your name and mailing address.

Problems or questions? Please call the Chapter office at 858-569-6005.

The following ballot is to elect members of the Chapter Executive Committee. The Chapter Executive Committee governs the business of the Chapter responsible for making important policy decisions and setting priorities for the future. The candidates receiving the highest number of votes in descending order will be elected. Please follow the instructions on the ballot regarding the number of votes allowed. Write-in candidates are allowed.

Important: This year the Chapter membership will elect candidates to two separate terms. Two (2) candidates will be elected to terms of 1 year and two (2) candidates will be elected to terms of 3 years. This will bring the rotation of Chapter Executive Committee elections into compliance with its bylaws which were amended to elect Executive Committee members to three-year terms.

October/November/December • Hi Sierran • San Diego
Sierra Club Bus Trips

Part of the largest grassroots environmental organization in the country, Sierra Club provides environmentally friendly outdoor adventures.

Since 1982 the San Diego Chapter has been offering bus trips to a variety of National and State Parks.

What makes these trips special is that they are organized by a fantastic team of volunteer leaders and nobody pays them for their efforts. They do it out of an appreciation for these special places and a passion for sharing them with you. We look forward to having you join us on a bus trip to explore, enjoy and protect the planet.

Save the date for the following trips: 2020

April 22-26, 2020
Tonto National Forest, Arizona
Details TBA

May 20-24, 2020
Grand Canyon National Park
Mather Campground
Trip type: Backpack and bus camp/day hikes

July 15-19, 2020
Hoover Wilderness
Trip type: Backpack and bus camp/day hikes

August 12-16, 2020
Yosemite National Park
Trip Type: Backpack and possible bus camp/day hikes

September 10-13, 2020
Santa Rosa Island (Channel Islands National Park)
Trip Type: Short backpack to campground/Day hikes

October 7-11, 2020
Northern Sierras
Details TBA

For more information or to register for the above Bus Trips, please visit www.sdsierraclub.org.

Like us on Facebook

CST2087766-40. Registration as a seller of travel does not constitute approval by the State of California. Locations and dates are subject to change due to permit availability.
2020 SIERRA CLUB CALENDARS

Save on shipping costs! Both calendar styles are available for purchase in the Chapter office. Just give us a call to make sure someone can help you at 858-569-6005, Monday - Friday, 9am-5pm.

ExCom Statements continued from page 3

Chair and is founding co-chair of POPs Protect Our Preserves San Diego. She is a member of San Diego County Democrats for Environmental Action, La Jolla Art Association, Friends of Del Mar Mesa and Sierra Club San Diego.

Her fine art photography, shot in 115 countries across seven continents, is represented by Imaging The World Gallery Santa Fe and Envision Gallery Liberty Station, among others. “Melting Antarctica” was selected for the 2010 UN Environmental Yearbook (UNEP) on global warming.

Rose Ryan

I would like to be of service to the Sierra Club and I believe my skill set would make me a valuable asset for the San Diego chapter. I find myself compelled to take action beyond simply being a member, as our current political regime seems to be intent on rolling back hard-won environmental protections across the board.

As a lover of nature I find myself happiest when hiking and camping. I care for wildlife and have volunteered at various community cleanups, meetings and walks to protect development of the natural landscape.

I hold a B.A. in Political Science and a J.D. I have been working in product marketing and management for the past several years. My skills include developing and delivering presentations, developing action plans, raising awareness for products and analyzing the marketplace, as well as building consensus amongst teams. All of these skills can be used to benefit the Sierra Club.

If chosen, I will dedicate my time and efforts to support the club to my best ability.

Tommy Hough

A native of Pittsburgh, graduate of Ohio University, and a 2017 FEAT award winner, Tommy Hough cut his outdoor teeth on outings into the Laurel Highlands of Western Pennsylvania as a teen, and later “graduated” to collegiate backpacking trips into wild areas of Southeast Ohio and West Virginia. After moving to Seattle, Tommy began his move toward environmental advocacy in tandem with his broadcast career, as he penned a series of conservation pieces for the Seattle Times on logging and wildfire in between exploring the trails and glaciated peaks of the Pacific Northwest.

Later, upon arriving in San Diego, Tommy underwent the transition from treehugger to chaparral warrior, partnering with the San Diego Surfrider chapter as part of his morning show on FM 94/9 to call attention to the fight to Save Trestles. While at FM 94/9, Tommy also organized post-Cedar Fire volunteer efforts at Cuyamaca Rancho State Park, and featured a variety of environmental advocates and notables on his Treehuggers International show.

Tommy’s work at Surfrider resulted in a move to Portland to manage media and communications for Oregon Wild, and upon returning to San Diego in 2014, he co-founded San Diego County Democrats for Environmental Action. Tommy served as the organization’s first president through 2017, when he stepped down to run for San Diego City Council in District 6 during the 2018 election cycle.

Tommy, his wife Cory, and their dog Reggie live in Mira Mesa. Currently, Tommy works as the campaign coordinator for the ReWild Mission Bay campaign with San Diego Audubon, and is a member of the Citizens Coordinate for Century III (C-3) board. He was most recently the morning host at 91X, and was also on the air at KPRI.

Melanie Fontana

Growing up in San Diego, I was always found roaming the golden hillsides of small canyons in my neighborhood, dodging hidden cactus and taunting creaking eucalyptus limbs overhead. “Be back by sunset!” was my favorite of my mother’s phrases. I climbed trees and discovered I could walk on broken glass without puncturing the calluses of my bare feet.

As an adult, I look now on that and sing gratitude to my mother for letting me loose into an environmental relationship that would shape my life and ethic. With what I know now from my work as a Park Ranger with the City of
Group Executive Committee Ballots and Instructions

Can I vote in the Group Executive Committee elections? To see if you are eligible to vote in the Group Executive Committee elections, check the mailing label on the back page. A three-digit (3) number beginning with “50” should appear in the line above your name, following your 8-digit membership number. This number designates your local group: 500 = No group membership and you are NOT eligible to vote in the Group elections; 502 = you are eligible to vote in the North County Group Executive Committee elections and 503 = you are eligible to vote in the North County Coastal (Coasters) Group Executive Committee elections.

The following ballots are to elect members of the the Group Executive Committees. The Group Executive Committees governs the business of the Groups. They are the key committees responsible for making important policy decisions and setting priorities for the future. The candidates receiving the highest number of votes in descending order will be elected. Please follow the instructions on the ballot regarding the number of votes allowed. Write-in candidates are allowed.

North County Group Executive Committee Ballot
North County Executive Committee Members are elected to serve a term of two (2) years.

Vote for no more than three (3) candidates, including write-ins, by marking the box next to a candidates name, including write-ins. For JOINT memberships please use the second set of boxes to vote.

☐ ☐ Kit Davis  ☐ ☐ Amanda Chaban
☐ ☐ Natasha Jaksch  ☐ ☐ Write In: __________________

☐ ☐ Write In: __________________

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Elections-San Diego Chapter Sierra Club
8304 Clairemont Mesa Blvd. #101, San Diego, CA 92111

If you live in these North County Group Cities, Please Vote!
Bonsall, Escondido, Fallbrook, Oceanside zip code 92058, Pala, Palomar Mtn., Pauma Valley, Poway, Ramona, San Diego zip codes 92127, 92128 & 92198, San Marcos, Santa Ysabel, Vista, and Valley Center.

North County Coastal Group Executive Committee Ballot
North County Coastal Executive Committee Members are elected to serve a two (2) year term.

Vote for no more than four (4) candidates, including write-ins, by marking the box next to a candidate’s name, including write-ins. For JOINT memberships please use the second set of boxes to vote

☐ ☐ Amelie Catheline  ☐ ☐ Mark Jenne
☐ ☐ Write In: __________________
☐ ☐ Write In: __________________

How to Vote: You must write your membership number on the outside of your mailing envelope (below your return address is a good place). Your membership number is required for your vote to count (this is how the election committees can verify that you are a member). Your membership number is the eight (8) digit number that appears above your name and mailing address on the back cover.

If you are unable to locate your membership number, please call the Chapter office at 858-569-6005.

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8304 Clairemont Mesa Blvd. #101, San Diego, CA 92111

If you live in these North County Coastal Group Cities, Please Vote!
Cardiff, Carlsbad, Del Mar, Encinitas, Oceanside zip codes 92052, 92054, 92056 & 92057, Rancho Santa Fe, and Solana Beach.
influence local environmental issues that the Sierra Club has the power to positively impact our daily lives. I strive to promote the Sierra Club’s mission to educate and enlist humanity to protect and restore the quality of the natural and human environment and to use all lawful means to carry out these objectives. We need a strong group of volunteers who have a passion for nature and will work to protect our planet by standing up to environmental destruction. My hope is to be one these people.

Amanda Chaban
Moving from the forests of Pennsylvania to the deserts of Southern California has been a huge change in my life, but with the help of the North County Group, I have been able to fall deeply in love with the new landscapes around me. After participating in the WBC, I knew I had to be part of the group’s efforts to protect these precious habitats, so I became a card-carrying Sierra Club member and joined the Conservation Committee.

I hope to now join the Executive Committee with the intention of adding my voice as a member of the next generation that will soon be following in the footsteps of those who have already done so much for environmental conservation. I support the current initiatives and direction of the NCG ExCom and the best way to work against the anti-environmental bias of the Reagan administration; I’ve been a member ever since. During that time the ability of local groups to affect issues that impact our daily lives has become clear. Along those lines, I’d like to see the North County Coastal Group help preserve the functional, natural beauty of our large and small wild areas, help people find ways to experience nature often, and help elect responsible people to public office.

I’m currently on the Coaster executive committee, serving as secretary. I’m also a volunteer naturalist/docent for the San Elijo Lagoon Conservancy and a member of the Encinitas Urban Forest Advisory Committee. I enjoy learning about the great variety of life that dwells in and passes through this area and look forward to working with you all to make our Sierra Club fun and effective!
On the edge of the Badlands of North Dakota, the lives, communities, and the environment of the people of the Fort Berthold Indian Reservation have been profoundly transformed by the discovery and industrial exploitation of the largest scaled oil field in North America. Their land is now littered with oil wells, fracking towers, and toxic waste dumps. Sickness and disease are fracturing ancestral land and culture. Some tribal members have profited from mineral rights, but widespread poverty threatens to destroy the social fabric of the community. Some tribal leaders are attempting to save their land and the future of their society in a David and Goliath struggle against powerful corporations and their political supporters. This documentary asks two universal questions: What is the true meaning of wealth and what is the meaning of home?

Rigged is a powerful, information packed film which reveals how, during a ten-year period since the election of a black president, Republicans and their allies have deliberately devised a playbook of strategies to suppress or intimidate minority voters. The documentary describes in detail the ten strategies and gives examples of them in action: A Latino man in Texas arrested on false charges of voter fraud; efforts in a rural Carolina county to purge voters from the database, just two of the examples given. One strategy, voter ID laws, has been temporarily stopped in some of the states shown by the courts. But activists still have a long way to go in order to protect the right of citizens to vote and by studying these ten strategies they can better prepare themselves to fight for that basic civil right.
Sierra Talks

Sierra Talks are on the first Friday, starting with refreshments and representatives from Chapter groups at 6:30 pm and programs at 7 pm with discussions afterward. The location is the Joyce Beers Center at 3900 Vermont St., San Diego, 92103, across the street from Trader Joe’s. Parking is available under Trader Joe’s and Ralphs Market. Sierra Talks are free and open to the public. Program Coordinator: Ernest “EL” Lotecka sdwalks@interactor.cc

October 4
San Diego Sierra Club Selected Bus Trips

Our local Club is part of the largest grassroots environmental organization in the country. In John Muir’s tradition, the Sierra Club wants to make you fall in love with the wilderness, so the San Diego Sierra Club provides environmentally friendly outdoor adventures to satisfy the soul. For over 34 years the San Diego Chapter has been offering bus trips to a variety of National and State Parks within an eight hour drive of San Diego.

What makes these trips special is that they are organized by a fantastic team of volunteer leaders and nobody pays them for their efforts. They do volunteer out of an appreciation for these special places, and a passion for sharing them with others. We look forward to having you on bus trips to explore, enjoy, and protect the planet. Join us for a picture tour of three of the trips, monumental Grand Canyon, beautiful Channel Islands and unique Death Valley. Your guides for the presentation will be K.H. Chong participating since 2010 and Michael Taylor who has been leading bus trips for 8 years while also serving as leader of the San Diego Sierra Club Social Section, Wilderness Basics Courses, and Leadership Review & Safety Committee.

November 1
Postcards From Mecca: Rediscovered Photographs of the Early Desert

When Susie Keef Smith died in Leucadia in 1988, her estate was handled by a county administrator who threw all her belongings into a dumpster. Well-known San Diego archaeologist Ron May dived into the bin and retrieved syrup-soaked old photo albums that told a Thelma-and-Louise story of the 1920s California desert. Susie had been seeking escape from a troubled home life and the havoc of childhood polio when she and her cousin, Lula Mae Graves, set out to photograph the last of the prospectors, burro packers and stage stops in the remote desert east of the Salton Sea. They traveled by burro, foot and Ford though sandy washes and roadless canyons, armed with a .38 revolver and a large format camera. While making postcards for the PO spinner rack (Susie was Mecca’s postmaster), the women were remade in the wilderness and wound up creating an unparalleled portrait of one of the lesser-known deserts in the West. Their story is told in a new book: “Postcards From Mecca: The California Desert Photographs of Susie Keef Smith and Lula Mae Graves”.

The presenter (and resucer of the photos), Ron May, is president and co-founder of Legacy 106 Inc. in San Diego. He has been involved in major historic and archaeological projects in San Diego and statewide. Co-presenter Steve Lech has written more than ten books on Riverside County history and serves on the Riverside County Historical Commission.

NOTE: Sierra Talks will not be held in December due to the first Friday being the same night as the December Night festival in Balboa Park with long traffic delays as well as other conflicting holiday events.
San Diego, I also sing gratitude for the conservation program that led to the protection of open space canyons and preserves in San Diego, including the one that raised me. That program pioneered urban conservation planning and came about through the tireless partnerships of environmental groups, user groups, developers, and governmental agencies. I’d love to put my background and experience in Environmental Studies, conservation, outdoor guiding and teaching to good use in a service to efforts—here on the local level—to promote cleaner, ecologically sound and socially inclusive initiatives, like those which rendered my childhood possible.

**Evlyn Andrade**

I would be honored to serve on the Sierra Club San Diego Executive Committee. I have always been a passionate proponent of social, economic, and environmental justice. Since moving to San Diego, I have been a vocal advocate of land preservation, aggressive Climate Action Plans, Community Choice Energy, and the San Diego Green New Deal. I am currently the Director of Development at Climate Action Campaign (CAC), an organization completely focused on stopping the climate crisis.

I am an elected Delegate for the California Democratic Party representing the 71st Assembly District and sit on the executive board of the San Diego Democrats for Environmental Action where I work to support candidates, bills, and ballot measures that aggressively fight climate change.

I have a B.A. in Chicano Studies from UC Berkeley and bring years of management and finance experience, overseeing and managing budgets ranging from $335k to $6M. Prior to working at CAC, I was Manager of the Center for Public Health Practice and the Office of Diversity at the UC Berkeley School of Public Health.

I hope I can count on your support to join the Executive Committee, where I will bring a fresh and diverse voice to the conversation.

**Executive Committee Statements**

- **3 Year term**

**Dan McAllister**

As a second-generation San Diegan, I have spent years enjoying this wonderful County and its natural resources. I grew up camping and hiking on Palomar Mountain, our deserts, and at the coast. My personal favorite is Torrey Pines State Park where the natural habitat and beauty of the Pacific Ocean abound.

Boards that I currently serve on include: Jackie Robinson Family YMCA, Habitat for Humanity, New Americans Museum at Liberty Station, and the San Diego Community College Promise Fund. Additionally, I Chair the San Diego Unified School District Audit Committee. I spent three years as a U.S. Peace Corps volunteer in the Western Pacific nation of Micronesia.

Our region is replete with many natural resources including ocean, wetlands, canyons, and deserts. It is incumbent upon all San Diegans to share in the responsibility of their preservation.

In a leadership role for the Sierra Club, my goals would be to:

- Foster more diversity and inclusion by challenging young people to get involved;
- Encourage new education programs for school children throughout the County;
- Focus on sound business processes and practices to ensure financial strength and stability.

Thank you for the opportunity to serve, I believe I can make a difference!

**David Rousseau**

I’ve been concerned about the environment ever since I participated in the first Earth Day as a high school student. I’ve always loved nature, and being outside, and my awareness of the impact of human activity increased significantly when I took the Wilderness Basics Course in 2002. I’ve been on the WBC Staff ever since, even serving as Chair for two years and writing the Prolog in the latest issue of the WBC textbook. I’m especially concerned about the ever-increasing environmental devastation caused by the fossil fuel and plastics industries, and the complicity of our politicians.

When I recently learned about new technology that can cleanly recycle 95% of all plastics, even plastics “contaminated” by food waste or marine growth, I got involved with the Chapter’s Conservation Committee and Zero Waste Subcommittee. I’ve taken the lead in exploring the feasibility of this new technology for our region, and introducing it to the city recycling office and some of the local recycling companies, to find a way to get it up and running here. As a retired aeronautical engineer for the Navy and Marine Corps, I’m undaunted by energy and environmental technology, and I’ll push for solutions that actually work.

**Joseph Bassett**

Joseph Bassett will be completing his law school scholarly writing this fall with a paper on ocean cleanup liability issues. (Thesis: Nonprofits operating robotic clean-up devices at sea should be held harmless barring gross negligence.) Born into a New England boating family, Joe has mainly made his living in boat sales. He has taken breaks from boating to earn degrees at U. Notre Dame, U.C. San Diego, and now California Western School of Law. In his volunteer time, Joe has served with Peace Corps Paraguay, managed a clean water and solar lighting project in Baja Sur, Mexico, and helped design a leadership program for at-risk youth in Lima, Peru. As a 25-year vegetarian, Joe has a great passion for animals. He hopes to share his love for our oceans and the creatures within by offering his legal expertise to Sierra Club.

**Cody Petterson**

It would be an honor to serve on the Sierra Club San Diego Chapter’s Executive Committee. I have committed my life to conservation, habitat restoration, environmental justice, and climate action, and I believe I can make a meaningful contribution to the Sierra Club’s work here in San Diego and across the State. I’m currently President of the San Diego County Democrats for Environmental Action. I serve as Assembly Speaker Anthony Rendon’s appointee to the San Diego River Conservancy Governing Board. I’m also a Director of the Resource Conservation District of Greater San Diego, a member of the Volcan Mountain Foundation Stewardship Committee, and a Trustee of the La Jolla Town Council. I live with my wife and two children in my hometown of La Jolla, where I am Director of the Sequoia Foundation, a nonprofit social science research firm dedicated to studying the socioeconomic impacts of environmental disasters. I believe I can effectively represent members throughout San Diego County, leverage my extensive relationships to advance Sierra Club’s conservation agenda, and help to wisely guide our organization’s long-term development. I appreciate your consideration and humbly ask for your vote.

Remember To Vote
the polymer chain intact. The resulting recycled plastic pellets are then formed into new products of the same type of polymer. Some current obstacles with mechanical methods of recycling are:

- If the plastic waste is not completely separated by type (PET, HDPE, etc.) and turned into pellets, it will be rejected by the buyer/manufacturer.
- If the plastic waste is not cleaned of dirt, food waste, etc., it will be rejected by the hauler/recycler.
- If the cost of this mechanical process is not competitive with the cost of making the product from virgin petroleum, then that type of polymer might be recycled – and could end up in landfills. This is the reason that many types of plastic waste are not even collected for recycling.

With chemical recycling, each type of plastic waste requires a unique chemical process such as chemolysis, pyrolysis (heating), fluid catalytic cracking, hydrogen techniques and gasification. Some methods use an enzyme, others use a catalyst, some require additional heating, and all require the use of water, which is reused.

You can think of enzymes and catalysts as “keys” that “unlock” chemicals. When a catalyst comes in contact with a specific chemical, it breaks that chemical apart. And like a key, the catalyst isn’t used up or destroyed in the process. It can continue to work on more chemicals that it comes in contact with.

The benefits of these chemical methods are:

- Contaminates (dirt, food, paper, etc.) do not affect the process,
- The waste stream consists only of those ‘contaminates’
- Each process breaks the polymer into its constituent monomers, and then chemically reassembles the monomers back into the pure polymer,
- The cost of each process must be competitive with the cost of making the product from petroleum. These chemical methods use (on average) 65% of the energy that would be required by the “from scratch” process, and eliminate the need to use “new” gas or petroleum products.

There are many companies in the US and internationally that are developing, or conducting, chemical recycling facilities. Most of these facilities are either just getting started, or they are in the early stages of full-scale operation. Some of these companies are Agilyx Inc. in Tigard, Oregon; The Carbios Laboratory in France; Recycling Technologies Ltd. in Swindon, England; BioCollection Inc. in Menlo Park, CA; Loop Industries Inc. in Terrebonne, Quebec; ReNew ELP in Redcar, England partnering with Nesteto in Finland; and Resinate Materials Group in Plymouth, MI.

Conclusions – Lots of Interest – More information is needed

Some members of the Conservation Committee recently met with Ken Prue, Recycling Manager for the City of San Diego, and Justin Ono, one of the City’s Recycling Specialists, to discuss this technology, and learn more about how the city and county deal with plastic waste. Sierra Club’s Zero Waste Chair, Michelle De Nicola, and I have also been meeting with members of the Citizen’s Action Committee, and recently got a tour of the EDCO recycling facility in Escondido as part of the last CAC meeting. There appears to be a significant opportunity for San Diego (City and County) to recycle nearly all types of plastic waste by using the chemical (enzyme and catalyst) methods, but much more needs to be learned. I will provide updates as the process goes forward.

If you are interested in getting involved with Zero Waste issues, our Conservation Committee has a new Zero Waste Subcommittee, of which I’m a member, led by Michelle De Nicola. For more information about either, please email George Courser, Chair of the Conservation Committee, at gcourser@hotmail.com.

Oceanside Celebrates

Dozens of people gathered at Buddy Todd Park in Oceanside as the Sierra Club celebrated two environmental milestones for the City of Oceanside. The Oceanside City Council unanimously adopted a Climate Action Plan and Community Choice Energy (CCE) program to explore partnerships with other San Diego County jurisdictions with a start-up date of 2022 or later.

Guests at the event included City Council member Esther Sanchez, Principal Planner Russ Cunningham, and Environmental Officer Mo Lahaie. Councilwoman Sanchez said, “I appreciate very much the phenomenal work by the Oceanside Team of the Sierra Club and CAPers in getting the council to pass, by unanimous vote, a Climate Action Plan and to proceed with establishing a Community Choice Energy Joint Powers Authority. I strongly support both and look forward to implementation.”

Co-Chair of the Sierra Club Oceanside Team, Barbara Collins, said, “Both of these milestones were top priorities for Sierra Club members in Oceanside. It’s great to finally have something concrete in place, the Climate Action Plan will make our city more livable and its economy more sustainable.” Co-Chair Roger Davenport added that residents are anxiously awaiting the start of Community Choice Energy, “It will be a giant force in reducing greenhouse gases, while reducing costs and creating revenue for the City to proceed with more emissions-reduction projects, such as adding more solar power to City facilities and homes.”

The “Oceanside Climate Action Planners” or Oceanside CAPers, formed in 2015 with a mission to get a Climate Action Plan (CAP) adopted in Oceanside. Oceanside resident Carol Hilton, a founding member of the CAPers said, “We were determined that Oceanside should join the rest of the cities in our region that already had a Climate Action Plan.”

To get active with the Oceanside group, contact Barbara Collins at 760-583-7933 or Becollins92@gmail.com.
my comfort zone, and try backpacking. But I drew the line at snow camp. Not doin’ it.

Then I changed my mind on that, too. Maybe it was that lecture on equipment by Bob Stinton in which he described an unexpected accumulation of snow in the Sierra Nevada . . . in August!!

By then, Doug and I were considering backpacking in the Sierra, and decided maybe we should learn about dealing with snow.

I had never worn snow shoes in my 60-plus years. In fact, before WBC, I had not slept in a tent in 45 years. Emcee Veronica Giancola said at the first meeting that WBC is a life-changing experience. She was right.

The Tuesday night presentations covered topics such as how to pack a backpack, preparing trail meals, personal hygiene (Jim Park’s hilarious “poop talk”), dealing with animal encounters, and the very important topic of navigation.

The staff and outings leaders are terrific people who love sharing their knowledge and experience. The 200-plus students are men and women, young and old, with varying fitness levels. For each outing there are approximately 16 trips to choose from, rated for varying levels of difficulty.

With each trip, we learned more about what worked for us and what to change. For Snow Camp, we had to bring all our stuff to the planning meeting so leader Sonja Sweeny could look it over. Then on a beautiful sunny day, Sonja and two terrific assistants took eight snow-camping neophytes snowshoeing two and a half miles into a beautiful scene from a Christmas card. We set up tents and built a “snow kitchen,” a center table surrounded by seating, all carved out of snow.

Dinner was a delightful experience! Doug and I were pretty pleased with ourselves afterwards. Our graduation certificates are still on the refrigerator.

It’s so great later in life to discover something new that you love. We are now backpackers, thanks to WBC!
Summer’s For Enjoying the Water, in the Mountains and the Ocean

by Bill Tayler

As a general rule, kids love being in water, and the ICO kids are no exception. Water trips are always a hit. So in June, we took kids hiking in Horsethief Canyon to the waterfall and swimming hole at the bottom. Some kids just played in the water, while others took the plunge off of rocks. And a finding friendly garter snake in the water added to the excitement!

And just when it got too hot to hike Horsethief, the ocean water started to warm up. So in July, August and September, we took kids on 8 snorkeling trips to La Jolla Cove, where they swam with Garibaldi and sea bass, searched the bottom for lobster and sting rays, and often found themselves surrounded by the curious and playful sea lions that seem to take joy in zooming in close and blowing bubbles in your face!

As summer comes to a close, we are looking forward to some of our fall hikes in the mountains. But we also will be looking forward to next year when we can return to the water!

Sierra Club Seal Society looks back and ahead

Throughout the year, our time, heart and soul has been dedicated to helping the city take actions to improve the management of the pinnipeds along our La Jolla beaches. In the first few months which is the pupping season for harbor seals, we gave bi-weekly programs at the Mangelsen’s Images of Nature Gallery followed by a short walk to the beach to observe the all too cute behaviors of mothers and their newborn pups. The fruits of our campaign labors came through clearly at the June California Coastal Commission meeting when Sierrans, and friends greatly out numbered the turnout by the opposition and the current beach closure policy was extended for another ten years.

Not resting or taking the victory for granted, the campaign has been active with frequent strategy planning meetings, training new docents, educating visitors about the needs of seals and sea lions, thinking of better ways the city could extend its already in-place protective laws, writing articles to the media, and speaking with elected officials and other policy making agencies. We are encouraging the city to produce signs using the international symbols, understood by all foreign language speakers. You know them, the red circle with the diagonal line running through. We also were pleased with the production of an excellent short video on the harbor seals of Children’s Pool by Toby Gad. Many of us were interviewed at the filming. Watch for it at local film festivals.

What is new for us is that we have recognized the lack of protections in effect at the nearby Cove where there is a large group of sea lions. In the last few years, a great number of the colony has moved away from the sandstone cliffs once a gate was opened. This let the public approach the animals and crowd them away from the cliffs. They may now be seen across from the Women’s Club. A lot of our efforts will be to educate people to allow for both their freedom of movement and our safety. Given the precarious steps and uneven substrate of the rocky point, the situation could easily prove unsafe for either of us.

As always, we encourage those of you who have the time and are concerned for the sea lions and harbor seals, to please contact us for our docent training program. It will be one of the most rewarding volunteer activities you could imagine. Contact me at ellenshively@sbcglobal.net

L to R. Shane Nolan, Ellen Shively, Richard Miller, Carol Archibald, and Karla Nolan.
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