



Previous Workshops, Tours, Trainings, and Publications

June 2026	Otay Landfill Tour: Composting, Food Waste, C&D Recycling, Leachate
September 2025	Balboa Park Botanical Building Tour: Green Building, Reuse & Historic Preservation, Lessons Learned
May 2024	APWA Reporter Magazine Article: <i>Sustainability Seminar Showcases Green Practices in San Diego</i>
October 2023	Sustainability Seminar: <i>Policies, Strategies and Best Practices in San Diego</i>
March 2019	In-Person Training on Envision v3, Sustainability Rating System for Infrastructure
July 2018	Sustainability Seminar: Achieving the Sustainable Community Vision in San Diego
October 2016	Sustainability Seminar: <i>Sustainable Approaches to Development and Infrastructure in San Diego</i>
May 2015	APWA Reporter Magazine Article: <i>Sustainability Seminar Provides a Fresh Breath of Green Practices</i>
October 2014	Sustainability Seminar: <i>Infrastructure for the 21st Century</i>
May 2014	APWA Reporter Magazine Article: <i>Advocating for Sustainable Engineering Practices in San Diego</i>
October 2013	Sustainability Seminar: <i>Sustainable Resilience</i>



Join Us for a
**TOUR OF THE
OTAY LANDFILL**

COMPOSTING - FOOD WASTE
C&D RECYCLING - LEACHATE

2026





Come Join Us
**BOTANICAL
BUILDING**
TOUR & SOCIAL

Sep 25, 2025 | At 11 AM

📍 1550 El Prado, San Diego

What you'll learn:

- Green Building Features
- Reuse & Historic Preservation
- Lessons Learned in Engineering and Construction

2025





Mapleton Green Street rendering in Lakeland, California.

Sustainability Seminar showcases green practices in San Diego

Reid Whelan, PE, EM/SP
Project Manager, County of San Diego

Edgar Lucero, PE, LEED-AP
Senior Civil Engineer, City of San Diego

Claire Moss, MSP
Planning Manager, County of San Diego

Shannon Sales, PE, CFM
Senior Civil Engineer, City of San Diego

Richard Fernandez, PE, PM, EM/SP
Senior Civil Engineer, City of San Diego

Another successful seminar, "Policies, Strategies, & Best Practices in San Diego," took place October 30, 2023, at the County of San Diego Open House Center, a certified LEED Platinum campus. The half-day seminar brought together local regulators, industry leaders, and over 50 attendees from Southern California and beyond to advance discussions on sustainability best practices.

The event was organized by the San Diego & Imperial Counties Chapter Sustainability Committee (Committee), which has a mission to advance the practice of sustainability in the planning, design, construction, operation, and maintenance of public works.

Young Professionals Committee
To kick off the seminar, the Young Professionals (YP) Committee facilitated an interactive exercise, "What's more sustainable?" which posed questions for the audience to prepare them for a half-day of networking, collaboration, and whole-system sustainability examples from the San Diego region. YP Chair, Catherine Shewley, and YP and Sustainability and Resiliency Committee members Claire Moss, discussed that sustainability in public works is defined as "meeting a balance of needs for a vibrant community today and tomorrow" through "efficient delivery of infrastructure, in an environmentally and socially responsible way that creates the best economic choice in the long term."

Institute for Sustainable Infrastructure
Kathleen Rana, President and CEO of the Institute for Sustainable Infrastructure (ISI), virtually presented from Washington, DC, on "Sustainable Infrastructure and the State of California." Evidence for a sustainability framework and rating system designed to help innovative transit stakeholders implement more sustainable, resilient, and equitable projects. This presentation included the history of ISI and Innovies, and how the rating system applies to all types and sizes of infrastructure. Rana showcased the San Diego International Airport Green Build, which received the Eviction Platform certification in 2016, and the nearby South Los Angeles Wetland Park, which also received Eviction Platform in 2014. Rana explained how Eviction can be adopted by public and private organizations, and how it can be advocated for by sustainability professionals.



Cover page for the Sustainability Seminar.

County of San Diego
Claire Moss, Planning Manager at the County of San Diego (County) provided an overview of the County's draft Climate Action Plan (CAP), a plan that balances environmental, economic, and community interests to reduce greenhouse gas emissions from the unincorporated areas (807,800 acres) and County operations (436 facilities). To reach net zero by 2040, the CAP establishes nine strategies, 21 measures, and 70 actions the County must take to reduce emissions from five emissions reduction sectors.

The CAP infuses public works topics into many measures. For example, the built environment and transportation sectors include "improve communities that leverage the unique characteristics of the unincorporated area, support critical services and amenities such as local businesses, parks, and libraries, include accessible options such as sidewalks and bike lanes, and where infrastructure to support public transportation and zero-emission vehicles is widely available." The Green Street Clean Water Plan supports this, as an evaluation of 1,700 miles of roads in the county that identifies the locations to accept and treat stormwater runoff while creating community enhancements, such as sidewalks and bike lanes.

Reid Whelan, Project Manager at the county, explained that green infrastructure is an approach to water management that protects, restores, or mimics the natural water cycle. Green infrastructure protects biodiversity, keeps urban areas cool, reduces pollution, mitigates flood risk, and enhances the health and well-being of urban residents. Values and the Mapleton Green Street in Lakeland California, a 7 mile-stretch project that has helped level up the street for pedestrians, bicyclists, and equestrian users, and a network of new local sidewalks, new access ramps, and 800 linear feet of new and improved sidewalks to illustrate these concepts.



Claire Moss speaking at the podium.

The County's CAP is located here: <https://cap.sandiegocounty.gov/>. The County's Green Streets Clean Water Plan is located here: <https://sdgwp.sandiegocounty.gov/greenwater/>. Click on "Green Infrastructure."

City of San Diego
Marissa Winterfeld, Sustainability Analytics Program Coordinator at the City of San Diego (City), presented on San Diego's Sustainable 2025 Climate Action Plan (CAP). The 2025 CAP establishes a community-wide goal of net zero by 2050, committing San Diego to an accelerated trajectory for greenhouse gas reductions through so strategies, decarbonization of the built environment, access to clean and renewable energy, mobility and land use, circular economy and clean commodities, resilient infrastructure and healthy ecosystems, and emerging climate action. Achieving net-zero emissions will improve air quality, communities, and the overall quality of life for San Diegoans.



The Seminar Planning Committee and speakers, from left to right: Claire Moss, Richard Whelan, PE, EM/SP, and Edgar Lucero, PE, LEED-AP. Also present: Shannon Sales, PE, CFM, and Richard Fernandez, PE, PM, EM/SP. Not pictured are Catherine Shewley and YP Chair, Claire Moss.

More than 1,000 San Diegoans shared their needs, concerns, and priorities in the development of the plan, and the city has already begun work, including transitioning all city facilities to San Diego Community Power's 100% renewable energy service, funding early implementation steps, and partnering with labor organizations to complete a workforce impact study.

The City's CAP is located here: <https://cityofsaniego.org/>.

The San Diego & Imperial Counties Chapter Sustainability Committee has a mission to advance the practice of sustainability in the planning, design, construction, operation, and maintenance of public works.

San Diego International Airport
Chad Rose, Environmental Affairs Manager at the San Diego County Regional Airport Authority (SDCAA) at San Diego International Airport (SAN), Gary Kasper, Environmental Affairs Manager for the SDCAA at SAN, and Kristian Salinas, Sustainability Services Manager for NORCCCO, discussed how sustainability is at the heart of SAN and the new Terminal T1 construction and design. This project commits to sustainability through energy and water conservation, and clean air and zero-waste initiatives. The airport's goal is to achieve LEED Gold certification for Terminal T1, as well as Eviction Gold rating. Some of the features discussed were expanded electric

SAN's website is located here: www.san.org. Water Works, Inc.'s website is located here: <https://www.waterworksinc.com>. Bore Co's website is located here: <https://www.boreco.com>.

Eviction Sustainability Framework and Rating System
Richard Fernandez, Senior Civil Engineer with the City of San Diego presented best practices for the Eviction Framework. Fernandez reviewed the Eviction credit categories and how to navigate the Eviction Platform Manual. He walked through Southern Ship Canal Water Quality Project, an Eviction Platform project. He stressed that

the project's greatest contributions to sustainability were decisions made early in project planning.

Fernandez also conducted a hands-on activity using the checklist so that attendees could apply their new knowledge and engage in meaningful discussion about the scoring criteria. Attendees were also challenged to consider how the checklist could be applied to incorporate sustainability in their own plans and projects.

Conclusion
The event was a success, the speakers were inspiring, and each presentation was followed by an active question and answer session. The event concluded with a networking session, and attendees provided feedback:

- "Interactive, engaging, and timely topics. Great to hear about real-world examples and Eviction implementation."
- "Variety of quality speakers, while still touching a common subject. Nice job!"

• "Interactive exercises at the beginning and at the end of the seminar"

The seminar promoted sustainability best practices in the region and the use of Eviction, which are two of the goals of the Committee. The Committee is looking forward to future events and including even more focused discussions to reduce the region and beyond on sustainability in public works.

If you are interested in hearing more about our content, please visit our website at: <https://sandiegocap.org/>. Reid Whelan can be reached at 619.592.1220 or Reid.W@san-diego.gov. Edgar Lucero can be reached at 619.438.1372 or Edgar.L@san-diego.gov. Claire Moss can be reached at 619.678.6022 or Claire.Moss@san-diego.gov. Shannon Sales can be reached at 619.622.1220 or Shannon.S@san-diego.gov. Richard Fernandez can be reached at 619.461.5310 or Richard.Fernandez@san-diego.gov.

CALL FOR PRESENTATIONS

SHARE YOUR GREAT SNOW AND ICE SOLUTIONS!

Help your colleagues meet the challenges in their communities by presenting your solution at the APWA 2025 Snow Conference.

Deadline for proposals is Friday, October 4, 2024.

For more information on submitting your proposal, scan the QR Code.

2024

REPORTER

AMERICAN PUBLIC WORKS ASSOCIATION (APWA) NEWS PUBLICATION

Sustainability Issue
See pages 40-73

Link to article: <https://apwa.partica.online/reporter/may-2024/flipbook/68/>

2023



Sustainability Seminar:

Policies, Strategies, & Best Practices in San Diego



8:00 am Check-In & Welcome

Sustainability Committee, *Mark Nassar – Chair and René Vidales – Co-Chair*
Young Professional Committee, *Catherine Showley – Chair and Claire Moss – Member*

8:30 am Institute for Sustainable Infrastructure (ISI)

“Introduction to Envision and Sustainable Infrastructure”, *Anthony Kane – President and CEO (Virtual)*

9:00 am County of San Diego

“Climate Action Plan Update”, *Claire Moss – Land Use/Environmental Planner and René Vidales – Project Manager*

9:30 am City of San Diego

“Our Climate, Our Future: City of San Diego Climate Action Plan”, *Marissa Westerfield, Program Coordinator*

10:00 am Break – Enjoy Coffee and Snacks

10:15 am San Diego International Airport and NORESKO

“New Terminal 1: Sustainability Triple Crown”, *Chad Reese – Environmental Affairs Manager, Cara Nager – Environmental Affairs Manager, and Kristen Salinas Sustainability Services Manager for Noresco*

10:45 am City of San Diego – Envision Training

“Harvesting Sustainability: Project Planning Using the Envision Pre-Assessment Checklist”, *Richard Fernandez – Senior Civil Engineer*

11:50 am Closing Remarks – Stay for the Networking

Paz Gomez – APWA San Diego/Imperial Chapter President

2019

Envision Version 3 – Live Training

Join ASCE for a LIVE Training on Version 3! This training will qualify you for the exam and if you already are an Envision Sustainability Professional, this training will count toward the CEU (required annually).

Location: SDGE Innovation Center

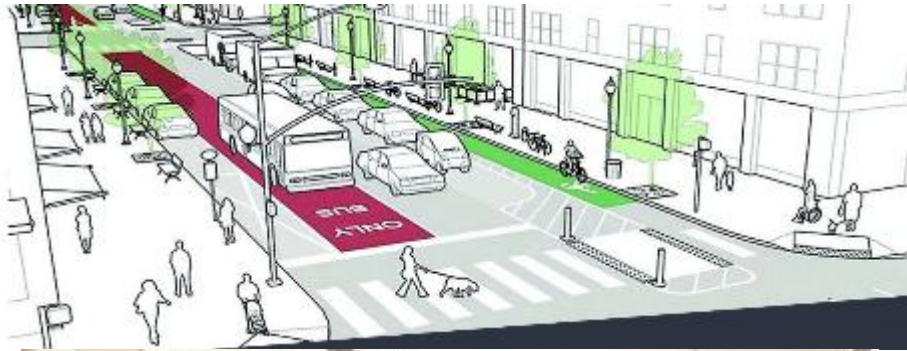
Date: Thursday, March 28

Time: Registration begins at 8:30 am



<https://sustainableinfrastructure.org/envision-v3-release/>

Achieving the Sustainable Community Vision in San Diego



AGENDA

wednesday, july 25th

limited seats, register now!

8:30 am Welcome and Word from our Sponsors
Sustainability Committee, *Mark Nassar*
Weston Solutions, *Richard Lucera*

🕒 8:00-8:30am Check-In
8:30-11:30am Seminar

📍 San Diego Innovation Center
Cabrillo B Conference Room
4760 Clairemont Mesa Blvd
San Diego, CA 92117

8:35 am Introduction
"Outlining the Sustainable Community Vision", *Mark Nassar and Cory Jones*

8:55 am Port of San Diego
"Practicing Sustainability", *Rafael Castellanos*

9:25 am City of San Diego
"Climate Action Plan: A Guide Forward", *Cody Hooven*

9:45 am Break – Enjoy Coffee and Snacks

9:55 am Brown and Caldwell
"Envisioning Sustainable Infrastructure: Envision Rating System", *J.P. Semper*

10:25 am National City/Neri Landscape Architecture
"Case Study: Paradise Creek Park Project", *Stephen Manganiello and Jim Neri*

10:55 am SANDAG/HDR
"Case Study: San Elijo Double Track Project", *Bruce Smith and Gheorghe Rosca Jr*

11:25 am Conclusion
"Looking To the Future", *Mark Nassar*



2016



San Diego Sustainability Seminar

When: Thursday, October 27, 2016 - 7:30 AM to 12:15 PM
Location: SDGE Innovation Center
4760 Clairemont Mesa Blvd



Please join us for an informative morning as leading experts share important information and innovation in sustainable approaches to development and infrastructure in San Diego.

Topics and Speakers include:

City of San Diego Climate Action Plan: Cody Hooven, City of San Diego Sustainability Program Manager

San Diego Regional Climate Collaborative and Solutions: Russ Cunningham, Senior Planner, City of Oceanside

Round Table Economic Discussion of Sustainability Drivers in San Diego:

- Dr. Alan Gin, USD (San Diego's current regional economic climate);
- Dr. Ted Groves, UCSD (Cost impact of providing safe clean drinking water);
- Dr. Mark Jacobsen, UCSD (Cost impact of meeting current and future Climate Action Plan / GHG Reduction Goals)

San Diego International Airport ENVISION™ Platinum Award: Brendan Reed, San Diego Airport Director of Environmental Affairs



San Diego Sustainability Committee is a subcommittee composed of members of the following three local civil engineering organizations: San Diego Section of ASCE, San Diego / Imperial County Chapter of APWA, and the San Diego Chapter of ACEC. The Committee's mission is to advance the practice of sustainable engineering practices in the planning, design, construction, operation, and maintenance of civil works within the San Diego and Imperial County regions of California.



Sustainability seminar provides a fresh breath of green practices in San Diego

René A. Vidales, P.E., QSD, LEED GA, ENV SP, STP
Program Coordinator, County of San Diego
San Diego, California
Seminar Co-Chair, Joint APWA/ASCE/ACEC San Diego Sustainability Committee

"My compliments as I have seen a lot of sustainability seminars and not many as animated or original." – Jeralee Anderson, Executive Director, Greenroads Foundation

The San Diego Sustainability Committee has a mission to advance the practice of sustainable engineering in the planning, design, construction, operation, and maintenance of civil works within the San Diego and Imperial Counties regions of California. The committee was created to assist the engineering community and public agencies in recognizing the significance of addressing sustainability in all aspects of infrastructure and natural resource administration (e.g., master planning of public facilities, capital construction, and infrastructure asset management, and operation and maintenance of existing and future public and publicly-beneficial utility and natural resource agency assets). Our focus is on achieving the many goals associated with engineering projects, including optimizing the infrastructure system as a whole,



A captivated audience during one of the many presentations at the "Infrastructure for the 21st Century" full-day seminar, which drew a total of 80 participants from the greater San Diego Region including both members and nonmembers of the APWA community.

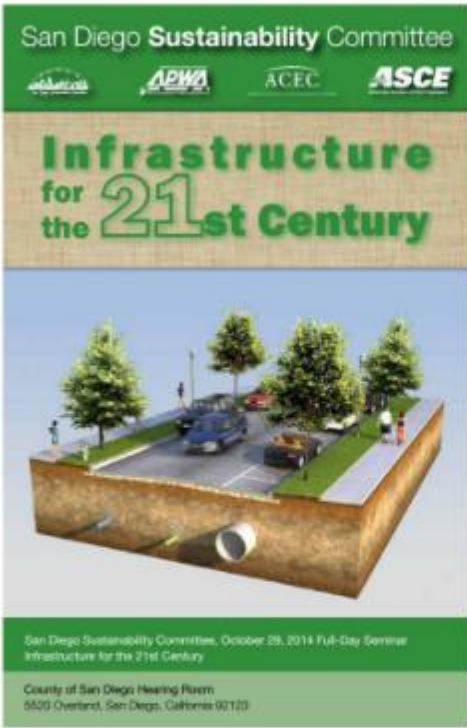


The "Leadership" panel. Left to right: County Supervisor Ron Roberts (CA Air Resources Board Member), Tim Smith (ASLA Stewardship Committee), Stephen Heverly (Equinox Center), Cory Jones (SDSC Chair), Danielle Buttacavoli (AIA Committee on the Environment), and Doug Kot (Former San Diego USGBC Executive Director)

while controlling capital and annual operation and maintenance costs.

The goals of the committee will be designed to achieve the six tasks outlined below.

1. Promote the use of the Institute of Sustainable Infrastructure's Envision® Rating System.
2. Present educational and training workshops to local APWA/ASCE/ACEC members explaining how to apply the Envision Rating System in both CIP planning and project-specific planning.
3. Develop and implement, in coordination with ISI, an Envision accreditation program (accreditations will be offered for positions to be titled "Assessors" and "Verifiers").
4. Create a forum for local municipalities and public agencies to learn from one another how their sustainability policies are implemented and to share their respective lessons learned. We may coordinate with a similar group in the Seattle area to benefit from how their organization was formed and set up to ease our set-up and transition.
5. Coordinate with ASCE's Government Relations Committee and APWA Advocates to coordinate efforts that support funding for sustainable practices.
6. Advocate for sustainable engineering principles to be applied as a standard of practice in our local engineering community.



The cover of the printed program for the "Infrastructure for the 21st Century" sustainability seminar

The San Diego Sustainability Committee (SDSC) held the "Infrastructure for the 21st Century" sustainability seminar on October 29, 2014 in San Diego, Calif., at the Hearing Room of the County of San Diego Operations Center, a certified LEED Platinum facility within a campus filled with LEED Gold facilities. The full-day seminar brought together discussions from local politicians,

regulators, and industry leaders from Southern California and beyond.

SDSC Chair Cory Jones from GHM gave the opening remarks which were immediately followed by an Ice Breaker Session titled "Cards to Save Humanity," a sustainable alternative to the popular game "Cards Against Humanity."

Keynote speaker Jason Anderson from Clean Tech San Diego talked about the area's innovations in clean technologies and adoption of sustainable business practices for the benefit of the economy and the environment.

The following four presentations focused on "Infrastructure Rating Systems," beginning with René Vidales from the County of San Diego, who gave an overview on Envision®, Greenroads, LEED, the Sustainable Sites Initiative and the Living Building Challenge.

This was followed by the Executive Director of Greenroads Foundation, Jeralee Anderson, who gave a presentation titled "Greenroads for the 21st Century" which included more in-depth details about the rating system and shared some success stories and examples from local California projects.

Sean Vargas from PSOMAS presented an Envision Platinum-certified project, the "Los Angeles Wetlands Park." The project was a result of a ballot initiative whose projects were conceived to remove pollution from the city's watercourses. Even though René and Sean had just met, it was conveyed to the audience that both of them would be presenting back to back in the same panel within a few days at the ASCE International Conference of Sustainable Infrastructure in Long Beach, Calif.

"Place County Stream Restoration" also received Envision Platinum certification and was presented by Stefan Schuster of CDM Smith, who summarized the Teow Creek project and discussed the benefits and lessons learned from the sustainability rating evaluation.

"Construction Procurement Committee's Number 2 Issue: Sustainable Infrastructure," by Dave

Umstot from Project and Facilities Solutions, explained how to integrate sustainability into our facilities' infrastructure required to meet the demands of our population.

The second half of the seminar focused on the five categories of Envision:

Leadership: Five panel members took turns to speak on this very engaging topic.

Stephen Heverly (Equinox Center) presented key findings from the 2014 San Diego Regional Quality of Life Dashboard, Equinox Center's principal publication which combines research efforts with outreach strategy to advance intelligent policy in the region.

Tim Smith (ASLA Stewardship Committee) talked about the effects of having multi-disciplinary workshops on sustainable design approach with landscape architects, civil engineers, landscape contractors, geotechnical engineers and government agencies.

Danielle Buttacavoli (AIA Committee on the Environment) gave a speech on recent collaboration in the San Diego community of Pacific Beach and an overview of EcoDistricts.

Doug Kot (former San Diego USGBC Executive Director) shared that dedication and passion of many

volunteers and partners have provided support over the years, like the efforts currently in progress in the San Diego community of North Park, which is taking the first steps in forming an EcoDistrict.

County Supervisor Ron Roberts (CA Air Resources Board Member) talked about recent projects such as the County Administration Center Waterfront Park and the County Operations Center plus the potential for a Gondola project that would take residents and visitors between Balboa Park and Downtown.

Quality of Life: "History of Living Walls" was presented by Mack Woolbright from the Living Wall Company. He explained that a living wall is simply vertical space covered by vegetation, although cultivating plants in vertical space is not always so simple.

Resource Allocation: "Chula Vista Recycled Pavement Program" featured Jose Gomez from the City of Chula Vista who presented on how pavement recycling has become a part of their pavement asset management plan and strategy, and Craig Harrington from Pavement Recycling Systems talked about the sustainable engineering of in-place recycling technologies.

Leslie McLaughlin with NAVTAC discussed "Future Technologies for Solid Waste Management," including

efforts with NAVTAC SW Division to increase recycling and reuse of solid wastes and illustrated how a number of commonly used objects can be used to extract energy in other countries.

Natural World: Bruce Wilson from the Imperial Irrigation District presented "Salton Sea Restoration and Mitigation" and shared a brief history of the Salton Sea and its history, issues surrounding the lake such as declining inflows and increasing salinity, the state's proposed restoration plan with alternatives, and the Salton Sea Authority's action plan for restoration and renewable energy initiative.

Climate and Risk: Randy Keller from CalEnergy presented "Geothermal Energy Production in Southern California," focusing on possible use of geothermal energy resources to assist the region reach its renewable energy goals.

The discussion were very engaging followed by questions from the audience. Panel members and all speakers received carbon off-set credits as a thank you for participating and all guests received reusable Chico bags and candy in honor of the Halloween season.

The event concluded with a Happy Hour at Council Brewing, one of the many local breweries in San Diego County.

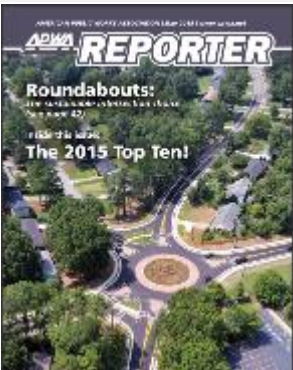


The hard-working Seminar Planning Committee that helped put together this event: Cory Jones, P.E., QSD, ENV SP (SDSC Chair), Michael Poland, P.E., ENV SP (Seminar Co-Chair), René Vidales, P.E., QSD, LEED GA, ENV SR STP (Seminar Co-Chair), Leanne Hammond, P.E., ENV SP (SDSC Secretary), Richard Diaz, ASCE LEED GA, ENV SR Brett Mackay, P.E., ENV SP (SDSC Treasurer), and Kelly Burnett, P.E., ENV SP

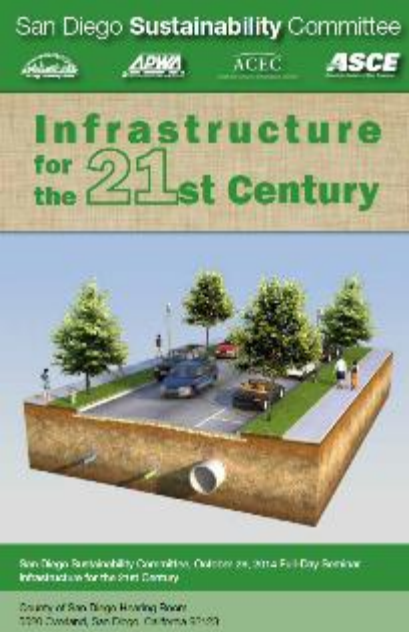
After the success of the 2013 "Sustainable Resilience" seminar and the 2014 "Infrastructure for the 21st Century" seminar, the committee is looking forward to the next event and including even more focused discussions to educate our region on this topic. If you are interested in hearing more about our committee, please visit our website at: www.sustainableinfrastructure.org.

René Vidales can be reached at (619) 694-3246 or René.Vidales@county.ca.gov.

2015



Link to article:
https://issuu.com/apwa/docs/201505_reporteronline



2014

San Diego Sustainability Committee



Time	Discussion/Event	Speaker(s)
8:00-8:15	Welcome, Opening Remarks and Overview	Cory Jones, GHD Inc.
8:15-8:45	Ice Breaker Breakout Session: Cards to Save Humanity	Kelly Burnell, Kleinfelder René Vidales, County of SD Michael Pollard, Psomas
8:45-8:50	Introduction of Our Keynote	Cory Jones, GHD Inc.
8:50-9:35	Keynote Address: What is San Diego doing to advance Sustainability in our community? Q&A — 9:30 to 9:35	Jason Anderson, CleanTech San Diego
9:35-9:45	BREAK (Foyer)	
9:45-9:55	Infrastructure Rating Systems Overview	René Vidales, County of SD
9:55-10:25	GREENROADS for the 21st Century	Jeralee Anderson, Greenroads
10:25-10:50	LA Wetlands Park – Envision™ Platinum Q&A — 10:45-10:50	Sean Vargas, Psomas
10:50-11:15	Placer County Stream Restoration – Envision™ Platinum Q&A — 11:10-11:15	Stefan Schuster, CDM Smith
11:15-11:20	Introduction of Dave Umstot	Vanessa Hahn, GHD Inc.
11:20-11:50	Construction Procurement Committee's Number 2 Issue: Sustainable Infrastructure Q&A — 11:40 to 11:50	Dave Umstot, Umstot Project and Facilities Solutions, LLC
11:50-12:30	LUNCH	

Time	Discussion/Event	Speaker(s)
PANEL DISCUSSION		
12:30-12:35	Leadership - Intro	Moderator: Cory Jones, GHD Inc.
12:35-1:35	What is San Diego Doing to Improve our Quality of Life? Q&A — 1:00 to 1:35	- Stephen Heverly, Equinox Center - Tim Smith, ASLA Stewardship Committee - Danielle Buttacavoli, AIA COTE, Ecodistricts in San Diego - Doug Kot, Former SD USGBC Chair - Ron Roberts, SD County Supervisor
1:35-1:40	Quality of Life - Intro	Kelly Burnell, PE, Kleinfelder
1:40-2:10	History of Living Walls Q&A — 2:05 to 2:10	Mark Woolbright, The Living Wall Company
2:10-2:25	BREAK	
2:25-2:30	Resource Allocation - Intro	Michael Pollard, Psomas
2:30-3:50	Chula Vista Recycled Pavement Program Q&A — 2:50 To 3:00 Future Technologies for Solid Waste Management Q&A — 3:20 To 3:30	- Craig Harrington, Pavement Recycling Systems - Jose Gomez, City of Chula Vista - Leslie McLaughlin, NAVFAC
3:30-3:35	Natural World - Intro	Richard Dial, Project Sustainability Associates
3:35-4:00	Salton Sea Restoration and Mitigation Q&A — 3:55 To 4:00	Bruce Wilcox, Imperial Irrigation District
4:00 – 4:05	Climate and Risk - Intro	Richard Lucera
4:05 – 4:30	Geothermal Energy Production in So Cal Q&A — 4:25 To 4:30	Randy Keller, CalEnergy
4:30 – 4:45	Endnote & Invitation to Happy Hour	Cory Jones & Curtis Chism



Date: **Wednesday, October 29, 2014**
7:30 a.m. to 4:45 p.m.

Location: County of San Diego
Hearing Room

Address: 5520 Overland
San Diego, California 92123

Advocating for sustainable engineering practices in San Diego

Cory Jones, P.E., QSD, ENV SP
Civil Project Engineer
GHD, San Diego, California
Chair, Joint APWA/ASCE/ACSEC San Diego Sustainability Committee

The San Diego Sustainability Committee has a mission to advance the practice of sustainable engineering in the planning, design, construction, operation, and maintenance of civil works within the San Diego and Imperial Counties regions of California. The committee was created to assist the engineering community and public agencies in recognizing the significance of addressing sustainability in all aspects of infrastructure and natural resource administration (e.g., master planning of public facilities, capital construction, and infrastructure asset management, and operation and maintenance of existing and future public and publicly-beneficial utility and natural resource agency assets). Our focus is on achieving the many

goals associated with engineering projects, including optimizing the infrastructure system as a whole, while controlling capital and annual operation and maintenance costs.

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1. Promote the use of the Institute of Sustainable Infrastructure's Envision™ Rating System.
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Envision accreditation program (accreditations will be offered for positions to be titled "Assessors" and "Verifiers").

4. Create a forum for local municipalities and public agencies to learn from one another how their sustainability policies are implemented and to share their respective lessons learned. We may coordinate with a similar group in the Seattle area to benefit from how their organization was formed and set up to fine our set-up and transition.
5. Coordinate with ASCE's Government Relations Committee and APWA Advocates to coordinate efforts that support funding for sustainable practices.
6. Advocate for sustainable engineering principles to be applied as a standard of practice in our local engineering community.

The San Diego Sustainability Committee put together its own mini-conference on October 30, 2013, at the City of San Diego's "Greenhaven" facility, which was the first building certified by the U.S. Department of Energy and U.S. EPA with the Energy Star label in 1999. The half-day seminar brought together discussions from local politicians, regulators, and industry leaders from the Southern California region.



Cory Jones, P.E., QSD, ENV SP, GHD Civil Project Engineer, presenting the "Metrics to Live By" a discussion of sustainability, reliability, availability, resilience, and vulnerability metrics and how the use of Envision™ can help your project address these critical parameters.

The seminar started with a local sustainable coffee truck, Joe's on the Nose, with baristas serving breakfast and espresso drinks. Once the audience finished mingling and getting properly caffeinated, the committee's chair, Cory Jones, P.E., QSD, ENV SP, from GHD, presented an introduction to sustainability in engineering and the goals and mission of the committee and presented the seminar theme: Sustainable Resilience. This was followed by an introduction to the Envision rating system by Jennifer Rives, Technical Director of the Institute of Sustainable Infrastructure via webex.

The next portion of the seminar discussed local case study projects. René Vidales, P.E., LEED GA, ENV SP, STP, from the County of San Diego, discussed his involvement with a neighborhood group and their efforts to work with the City to maintain sustainable features of a street improvement project along the gateway corridor, Texas Street, in their neighborhood, North Park. Michael Pollard, P.E., ENV SP, from Thomas, then presented efforts to work with the County of Los Angeles to turn



Captivated audience participants at the Sustainable Resilience Seminar on October 30, 2013. The seminar drew a total of 85 participants from the greater San Diego Region including both members and nonmembers of the APWA community.



October 30, 2013 Half-Day Seminar Program. The program's theme "Sustainable Resilience" highlights the two key factors in sustainable design: both designs for sustainable futures and designs for resilient infrastructure.

an old solid waste location into a neighborhood park with a man-made wetland treatment system. Adam Bogage, P.E., LEED AP, ENV SP, Moffat & Nichol, then discussed efforts in working with the Navy to use Envision to certify the redevelopment of their Fuel Pier.

Colin Chung, Ph.D., P.E., from GHD, then provided a discussion of Triple

Bottom Line Accounting used in the development of Asset Management Plans (AMPs) for municipal scale asset management. Municipal scale AMPs are meant to go beyond water, wastewater, and pavement management systems and move in the direction of including parks, urban forestry, building infrastructure, stormwater, in both natural and hard assets, and other spheres of public works department assets.

Mark Norton, P.E., LEED AP, from the Santa Ana Watershed Project Authority, then discussed their organization's unique "One Water One Watershed (OWOW)" Plan and implementation. This plan is a guide for the 41 member organizations that are part of the joint use district. Originally, the district was created to facilitate discharge of treatment plant brine discharge lines. Now, these agencies are using the existing district to develop a regional approach to create multiple benefits in terms of development of regional water supply, water quality, environmental and

habitat conservation, and developing the strategy to enhance community benefits for the entire watershed.

Bruce Smith, P.E., Senior Engineer with the San Diego Association of Governments (SANDAG), presented sustainable engineering applied to the Los Angeles - San Diego - San Luis Obispo (LOSSAN) rail corridor, which included implementing sustainable practices with regard to choosing a sustainability rating system, sea level rise, water quality, environmental mitigation, adaptable bridges, and new long-life concrete mix standards.

The last segment of the seminar was a lunchtime guest panel that included representatives from the California Air

Resources Board (CARB), California State Water Resources Control Board (SWRCB), and the U.S. Army Corps of Engineers (USACE). Ron Roberts represented CARB and is also a local San Diego County Supervisor, and he presented the goals of CARB and legislative mandates to reduce greenhouse gas emissions across the state. Wayne Chiu, SWRCB, discussed efforts by the San Diego Regional Water Quality Control Board that include collaboration with natural resource, municipality, and non-government organizations in development of the new Municipal Separate Storm Sewer Permit program. Discussion was very engaging and several elegant questions from the audience were responded to by

panelists. Panel members and all speakers received carbon off-set credits as a thank-you for participation and all guests received reusable and insulated grocery bags and candy in honor of Halloween the next day.

The committee is looking to recreate the success of this seminar in 2014 and is very interested in including more focused discussions to educate our region on this topic. If you are interested in hearing more about our committee, please visit our website at: www.sdsustainableinfrastructure.org.

Cory Jones can be reached at (858) 244-0440 or Cory.Jones@ghd.com.



The hard-working volunteers who helped bring this event together. From left to right: Michael Pollard, P.E., ENV SP; Brett Mackey, P.E., ENV SP; Bruce Smith, P.E.; Lauren Hammond, P.E., ENV SP; Adam Bogage, P.E., ENV SP; René Vidales, P.E., ENV SP; and Cory Jones, P.E., QSD, ENV SP.

2014



Link to article:

https://issuu.com/apwa/docs/201405_reporteronline

San Diego Sustainability Committee

S U S T A I N A B L E RESILIENCE



2013

Date: **Wednesday, October 30, 2013**
7:30 a.m. to 1:30 p.m.

Location: City of San Diego
 Environmental Services Department
 "Greenhaven" Green Building

Address: 9601 Ridgehaven Court
 San Diego, California 92123

Seminar Topics

- ENVISION™ - Sustainable Infrastructure Rating System
- Case Studies: Advancing the Practice of Sustainable Engineering
- Regulatory / Legislative Drivers
- Impacts of Sustainable Community Discussion in the 2050 Regional Transportation Plan
- Triple Bottom Line Accounting in Asset Management
- Regulatory Round Table



Time	Discussion/Event	Speaker(s)
7:30 - 8:00	Check-In / Social / Continental Breakfast	
8:00 - 8:20	Introduction & Program Overview	Cory Jones, GHD Inc.
8:20 - 8:40	Introduction to ENVISION™	Jennifer Rivers, Institute of Sustainable Infrastructure
8:40 - 8:50	Break	
8:50 - 9:10	Case Study 1: <i>North Park Neighborhood Community Sustainability Planning</i>	René Vidales, County of San Diego
9:10 - 9:30	Case Study 2: <i>Rory Shaw Wetlands Park: Converting a landfill to a public park</i>	Michael Pollard, Psomas
9:30 - 9:50	Case Study 3: <i>San Diego's first ENVISION™ project application</i>	Adam Bogage, Moffatt & Nichol
9:50 - 10:00	Break	
10:00 - 10:30	Triple Bottom Line Accounting in Asset Management	Colin Chung, GHD Inc.
10:35 - 11:00	One Water One Watershed (OWOW) Development & Implementation	Mark Norton, Santa Ana Watershed Project Authority
11:00 - 11:10	Break	
11:10 - 11:35	Planning for the Future with the 2050 Regional Transportation Plan	Elisa Arias, Principal Planner, SANDAG
11:35 - 12:00	Implementing Sustainable Resilience along the LOSSAN Rail Corridor	Bruce Smith, SANDAG
Lunch & Regulatory Round Table		
12:00 - 12:10	CCC Introduction & Sustainability Policies	Esther Sanchez, Former Coastal Commissioner
12:10 - 12:20	CARB Introduction & Sustainability Policies	Ron Roberts, CARB Board Member
12:20 - 12:30	SD RWQCB Introduction & Sustainability Policies	Wayne Chiu, San Diego Regional Water Quality Control Board Engineer
12:30 - 12:40	USACE Introduction and Sustainability Policies	Michelle Lee Mattson, ICF So. Cal. Biology Team Manager - Former UCACE LA District Sr. Regulatory PM
12:40 - 1:30	Open Panel Discussion	