

# ACI-NA ENVIRONMENTAL COMMITTEE SUSTAINABILITY WORKING GROUP

## CHAIR AND CO-CHAIR REPORT ON SUSTAINABILITY



WINTER 2019

## THOUGHTS FROM THE CO-CHAIR

Welcome to the Winter 2019 Sustainability Working Group (SWG) newsletter. We hope you enjoy this issue, which includes stories about the Airports Going Green Conference, resources available from ICLEI – Local Governments for Sustainability, news from San Diego International Airport, and more!

With my time as Co-Chair coming to an end, I wanted to thank everyone for your support and welcome new Co-Chair Tami McCrossen-Orr from LAWA, who is a wonderful addition to the SWG's leadership.

As someone still relatively new to the aviation industry, I'm continually impressed with the sustainability leadership demonstrated by so many airports in North America. Recognizing that all airports are working in the context of their available resources, organizational priorities, and the communities they represent, our friendly competition is incredibly valuable and pushes us all to be more innovative.

That said, I'm often reminded of the headwinds we still face. I recently spoke on a Corporate Social Responsibility panel at the Sustainable Denver Summit and was a bit disheartened by the number of audience members who excitedly approached me afterwards saying they had no idea DEN was doing so much. I can't help but think that part of this reaction reflects that fact that while people interact with airports in a variety of ways, they often have other things on their minds besides sustainability.

For as much time as we spend on programs and projects, we need to be equally diligent about communicating the work we do and why it matters. This is one of the greatest values of the ACI-NA SWG and this newsletter – providing opportunities for us to learn from each other's successes and challenges, use those insights to improve our home airports, and tell our stories in compelling ways to the millions of passengers who use our facilities each year.

We have the incredible opportunity to collaborate with the best in our field, and I hope that we all continue to find new ways to take advantage. I know that I will even as I transition out of my role as SWG Co-Chair.

– Scott Morrissey, *Outgoing SWG Co-Chair*



**CHAIR:**  
**Danielle Buehler,**  
Sustainability Program Manager  
Philadelphia Division of Aviation



**OUTGOING CO-CHAIR:**  
**Scott Morrissey,**  
Senior Director – Sustainability  
Denver International Airport

JANUARY 2019 | ISSUE 18

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# SUSTAINABLE CONCESSIONS

## A Taste of San Diego's Green Concessions Program

Contributed by **Chad Reese**, Environmental Affairs Manager at San Diego County Regional Airport Authority



At SAN, concessionaires are considered internal stakeholders of particular interest when it comes to airport-wide sustainability initiatives. As a result of this, a **"SAN Green Concessions Program"** was identified as a priority action in both the airport's Strategic Energy Plan and Water Stewardship Plan as a way to engage tenants in **lowering the airport's utility usage and costs**. Although many of the concessionaires at SAN are already engaged in sustainability initiatives, the SAN Green Concessions Program helps consolidate activities, which improves implementation and communication. Through the Program, the Airport Authority developed a reward and recognition program to identify areas where resource efficiency and conservation can be promoted without impacting tenants' ability to perform their business functions. Through participation, this program rewards the adoption of sustainability principles in concessions offerings and provides passengers with an opportunity to support concessions with sustainable practices on the airport campus. With SAN's voluntary (opt-in) rewards and recognition program, restaurants and retailers pledge to enact best practices in water, energy, and waste reduction. In turn, the airport provides concessions with expert educational resources, marketing materials, and favorable press.

The benefits of the SAN Green Concessions Program extend beyond the concessionaire. Passengers benefit from healthier food options, environmentally friendly packaging, and cleaner products. By consuming sustainable products, customers have purchasing power to influence the market. SAN benefits from being able to benchmark and track metrics and create case studies of best practices. **Engaged tenants can help lower operating costs via lower utility costs and increases in employee productivity.** The program aligns with the airport's "Community" strategy, which emphasizes trust and responsiveness as a community partner.



*"At SAN, we've defined sustainability as 'building an enduring and resilient enterprise by effectively managing our financial, social and environmental risks, obligations and opportunities.'"*

- Kimberly J. Becker

President/CEO of San Diego County  
Regional Airport Authority



(Pictured l to r) Jim DeCock, San Diego County Regional Airport Authority (Authority); Chad Reese (Authority); Amy Loll, High Flying Foods; Vakaba Sesay, HMS Host; Jim Zieg, Stellar; Rob Zimer, Mission Yogurt; & Paula Morrealem (Authority).

Learn more at: [www.san.org/shop-green](http://www.san.org/shop-green)

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# SEE YA, PLASTIC STRAWS

## HMSHost – A Global Culinary Provider’s Push to Support Sustainability



*Contributed by Anna Szczesniak, Senior Marketing Manager, HMSHost and former SWG Newsletter Team Member*

HMSHost, a leading global restaurateur, will eliminate conventional plastic straws at all of its North American locations by 2020. This is the first plan to eliminate plastic straws by an airport concessionaire to date.

HMSHost has already made strides in its commitment to eliminate plastic straw use. Earlier this year, HMSHost began eliminating plastic cocktail stirrers at nearly all of its casual dining locations. In an effort to support Earth Month, HMSHost created two straw-free signature cocktails that raised awareness amongst airport travelers and fueled conversation as they took to social media using the hashtag #NoStraws. Thank you HMSHost for going above and beyond in the fight to eliminate plastic straws!

HMSHost works with an expansive portfolio of restaurant brands and airport partners to reduce waste and find sustainable, innovative alternatives that meet the needs of a diverse range of traveling guests. Alternative options being explored include, but are not limited to:

- Compostable plant-based straws;
- Paper straws; and
- Sip cup lids.

HMSHost continues to work closely with airports and restaurant partners to explore waste reduction techniques and bring the latest sustainable offerings to everyday operations in airport food and beverage locations across North America. Keep up the good work, HMSHost!



One of our restaurant partners, @HMSHost, has announced it will eliminate its use of plastic straws by 2020. HMSHost operates multiple Starbucks locations, Farmers Market, Brix & Vine, and Flying Dog Tap Room here at BWI Marshall. @HMSHostSupport #NoStraws [fastcasual.com/news/hmshost-p ...](http://fastcasual.com/news/hmshost-p...)



12:32 PM - 12 Jul 2018



@HMSHost is eliminating plastic straw use in North American locations by 2020. Joining a growing list of companies that are #nostraws [hmshost.com/news/details/h ...](http://hmshost.com/news/details/h...)



SEE YA PLASTIC STRAWS! 🌍 Excited to announce that HMSHost will eliminate our use of ALL plastic straws by 2020. We care about our guests the same way we care about our planet and can't wait to continue serving you in a way that also treats it w/ respect 🌍 [bit.ly/2u1CwP](http://bit.ly/2u1CwP)



1:08 PM - 12 Jul 2018



Restaurateur @HMSHost to end plastic straw use in by 2020 #nostraws will be interesting to see the drinking options when traveling through an airport!



Happy Earth Day! 🌍🌱🍷🌸 Fun fact: Americans use an average of 500 million drinking straws per day. PER DAY. So, this year we were inspired to join our friends at @BACARDI and @GreyGoose and go strawless for the entire month of April. #NOSTRAWS #drinkresponsibly #EarthDay2018



6:04 PM - 22 Apr 2018

Newsletter Prepared by Ricondo & Associates, Inc.

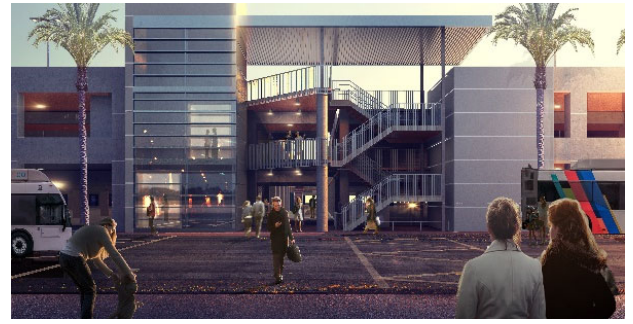


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# SUSTAINABLE INNOVATION

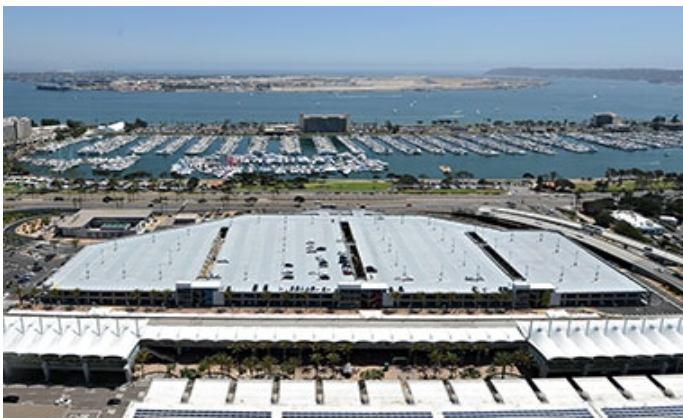
## San Diego International Airport's Parksmart Gold Certification

Contributed by Brendan Reed, Director of Planning & Environmental Affairs for San Diego County Regional Airport Authority



San Diego International Airport recently received Parksmart Gold Certification for their new Terminal 2 Parking Plaza (T2PP), making it the first airport to achieve Parksmart Gold.

Congratulations to SAN for this impressive certification!



SDIA Terminal 2 Parking Plaza; Photo: Swinerton, Inc.



SDIA Terminal 2 Parking Plaza; Photo: Swinerton, Inc.

The T2PP is a three-story facility that integrated state-of-the-art parking technology allowing for an efficient and high-quality passenger experience with its 2,900 parking stalls. The T2PP obtained these key Parksmart credits:

- **Access to Mass Transit:** The project provides better access to mass transit options and provides users with clear, direct, and more convenient access to the terminal.
- **Idle-Reduction Payment Systems:** The T2PP has implemented payment options that reduce or eliminate idling in the egress parking lanes, including pay-on-foot, pay-by-cell, and Automated Vehicle Identification.
- **Renewable Energy Generation:** The San Diego Airport Authority has 5.5 megawatts of solar panels installed at SAN that generate 8.8 million kilowatt hours of electricity annually. The Authority plans to allocate approximately 687,000 kilowatt hours to the T2PP facility, enabling it to be completely powered by renewable energy with significant renewable power to remain available to the Authority to use for future projects.
- **Rainwater Harvesting:** The T2PP includes a series of 36-inch diameter storage pipes beneath the bottom level of the structure that have been sized to hold over 100,000 gallons of runoff. Water captured by this system is delivered to the Airport's Central Utility Plant as "make-up water." Without this system, the airport would otherwise have to use city water for this function. Therefore, this system manages stormwater, while saving city water for other uses.
- **Electric Vehicle (EV) Charging Stations & Energy Efficient Lighting:** The T2PP contains 16 EV charging ports and 160 EV-enabled parking stalls for future growth, as well as over 1,700 energy-saving LED light fixtures.

SAN also recently earned an Envision™ Gold certification from the Institute for Sustainable Infrastructure!

Learn more at: <https://www.san.org/parking/T2-Plaza>

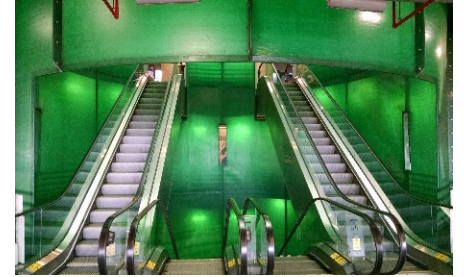
# SUSTAINABLE INNOVATION

## Fort Lauderdale-Hollywood International Airport and Parksmart Certification

Contributed by Daniel Ciarcia, Parksmart & Sustainability Consultant and Dedrie Registe, Senior Contract/Grant Administrator, FLL



Many airports have adopted sustainability practices in their airside operations and terminal building designs. However, in 2017-2018, Fort Lauderdale-Hollywood International Airport (FLL) became the first airport in the world to earn certification for sustainable design and operations initiatives in its landside parking facilities. FLL's Cypress Garage and Rental Car Center, Palm Garage, and Hibiscus Garage all achieved U.S. Green Building Council (USGBC) Parksmart Certification for its parking design and management excellence.



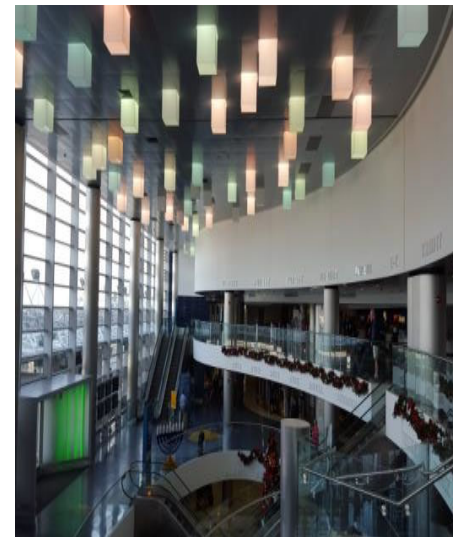
USGBC Parksmart Certification recognizes parking structures that demonstrate advanced environmental sustainability and efficiency in their design, programming and management. It applies to both new and existing buildings and considers facilities' ongoing operational as well as design attributes. As a result of certification, FLL parking facilities enjoy **lower operating costs, improved air and water quality, enhanced customer satisfaction, and other sustainability benefits.**

Patrons enjoy the garages' green spaces, picnic areas, interior courtyard, decorative façades, public art, light displays and interior nautical décor, an airport observation platform, and pet relief area for their furry flying companions.

Initiatives include a cell phone lot to mitigate idling, electric vehicle charging stations, and space wayfinding to reduce circling. FLL has incorporated the Florida SunPass toll transponder system and pay-on-foot payment kiosks to hasten exit times and limit idling.

The sustainability practices that FLL employs **are achievable by most airports** so they encourage all airports to evaluate their own parking system for sustainability and Parksmart eligibility. For FLL's certification, the airport didn't incur significant capital expenditures since most initiatives were already in place or only required operational changes.

As the gateway to your city or region, achieving Parksmart Certification for your airport tells travelers and the community that you're committed to **creating environmental and social value.** Parksmart will bring you well-deserved recognition for lightening your garage's environmental footprint, benefiting the local community, and maximizing efficiency throughout the parking system.



For more information, please contact: Daniel Ciarcia at [dan@twowillowsconsulting.com](mailto:dan@twowillowsconsulting.com) or Dedrie Registe at [dregiste@broward.org](mailto:dregiste@broward.org)

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# AIRPORTS GOING GREEN 2018



**Airports Going Green 2018** was hosted by Hartsfield-Jackson Atlanta International Airport in Atlanta, Georgia! Since 2008, AGG has been an important forum on airport sustainability. This year’s AGG conference focused on resiliency at airports, climate change adaptation strategies, and global energy transformation.

Below are the eight award winners, six honorable mentions, and other submittals – all equally worthy of recognition. Congrats! More information on Award Winners can be found at [www.aaae.org/aaae/Green/Default.aspx](http://www.aaae.org/aaae/Green/Default.aspx).

*Special thanks to Sara Christen-Hassert of Landrum & Brown for sharing AGG insights!*

## 2018 James M. Crites Pioneer in Aviation Sustainability Award

Paul Manasjan	Paul Manasjan, former Director, Environmental Affairs for the San Diego County Regional Airport Authority and now Technical Expert for Haley & Aldrich, is a sustainability “rock star” with over 30 years of sustainability innovation.
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## Award for their Corporate Sustainability Strategy

Brisbane Airport Corporation	Brisbane Airport Corporation developed and implemented its Corporate Sustainability Strategy in 2017 focusing on emission reductions, waste minimization, and defining visions of carbon neutral growth and zero-waste operations by 2030.
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## Award for their Integral Solid Waste Management Program

Luis Carlos Galán Sarmiento El Dorado International Airport	Concessionaire OPAIN S.A. initiated this program at Bogotá’s El Dorado International Airport to reduce impacts to the environment caused by airport waste. This program contributes to efforts to extend the city’s landfill life cycle and reduce El Dorado’s carbon footprint.
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## Award for their Green Commuter Program

Toronto Pearson International Airport	Toronto Pearson International Airport’s Green Commuter Rebate Program provides monthly taxable rebates to GTAA employees who choose green commuting, helps decrease traffic congestion, and reduces GHG emissions.
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### Other Submissions

- Individual Leadership – Cullen Choi; Mark Clemency
- Sustainability Infrastructure – DFW Dynamic Glass Study; Culepeper Regional Stormwater Management
- Sustainability Program – Atlanta Asset Management and Sustainability Division, Atlanta Ecodistrict; Delaware North at LAX; LAWA Sustainability by the Numbers; PHL Energy and Emissions Reduction Plan; PHX T4 Water and Chemical Savings Program; San Diego Food Recovery Program; San Diego Good Traveler Program; San Diego Greenhouse Gas Reduction Program; Wayne County Airport Arbor Day
- Tenant, Concession, Vendor – Delaware North at MSP; Delaware North Travel Hospitality; Delaware North ATL Food Recovery; Delaware North-AUS ABIA’s Food Rescue Program; Goodr ATL Food Recovery Challenge; HMSHost Plastic Straw Elimination

## Honorable Mention Recipients

- **Jackson Hole Airport** – Sustainable Water Program
- **Rio De Janeiro Intl. Airport** – Conexao Escola “School Connection”
- **Greater Orlando Aviation Authority** – Leadership of Jeff Daniels
- **Chicago O’Hare Intl. Airport** – Hilton O’Hare Airport Mattress Recycling Program
- **United Airlines** – Raptor Relocation Project
- **Fort Lauderdale Intl. Airport** – Airport Parking Structure Sustainability



## Award for their Partnership with Clean the World

United Airlines	This partnership allows United to divert waste from landfills by removing unused items from flights. These items are donated and made into hygiene kits.
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## Award for their Sustainability Management Program

San Diego International Airport	San Diego International Airport’s Sustainable Management Program includes notable developments including the Transportation Network Company Greenhouse Gas Reduction Program, The Good Traveler Program, and the Food Recovery Program.
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## Award for their Sustainable Infrastructure Development

Titusville-Cocoa Airport Authority – Merritt Island Airport	Merritt Island Airport’s innovative infrastructure improvements prove that growth in aviation can be sustainable and environmentally friendly.
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## Leadership Award

Theresa Samosiuk	Theresa Samosiuk, Deputy Director of Airfield Facilities at Wayne County Airport Authority has shown outstanding individual leadership in sustainable design and airfield improvements.
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# AIRPORTS GOING GREEN 2018

**The Airports Going Green Awards** were established with the belief that industry recognition is a key element in fostering sustainability achievement and innovation. This year featured a record 32 nominations for consideration. Recipients were recognized at the 11<sup>th</sup> Annual Airports Going Green Conference in Atlanta by Chicago Department of Aviation (CDA) Deputy Commissioner of Environment Aaron Frame and Assistant Commissioner of Intergovernmental Affairs Nancy Kiernan. Photos below can be found at [www.aaae.org/aaae/Green/Default.aspx](http://www.aaae.org/aaae/Green/Default.aspx).

## Award Review Committee -

- **Aaron Frame**, Deputy Commissioner of Environment, CDA
- **Brendan Reed**, Director, Planning & Environmental Affairs, San Diego County Regional Airport Authority
- **Melissa Solberg**, Sustainability Manager, Tampa Intl. Airport
- **Denise Pronk**, Program Manager Corporate Responsibility, Schiphol Group
- **Prabh Banga**, Associate Director, Strategy & Growth, Toronto Pearson Intl. Airport
- **Aileen Cho**, Senior Editor, Transportation, Engineering News Record
- **Paul Bowers**, Publisher, Airport Improvement Magazine



*Paul Manasjan – 2018 James M. Crites Pioneer in Aviation Sustainability Award; (l to r) Emily Conway (DFW), Paul Manasjan, & Aaron Frame (CDA)*



*El Dorado International Airport – Integral Solid Waste Management Program; (l to r) Carolina Charum Guzman, David Carreño Silva, Alejandra Sanabria Amostegui, & Tania Chacin Jaimes*



*Toronto Pearson International Airport – Green Commuter Program; (l to r) Aaron Frame (CDA), Prabh Banga, & Nancy Kiernan (CDA)*



*United Airlines – Partnership with Clean the World; (l to r) Aaron Frame (CDA), Aaron Stash, John Knight, & Nancy Kiernan (CDA)*



*Merritt Island Airport – Runway 11-29 Safety Area Improvements and Sustainable Infrastructure Development; (l to r) Aaron Frame (CDA), Mariben Espiritu Anderson, & Nancy Kiernan (CDA)*



*San Diego International Airport – Sustainability Management Program; (l to r) Brendan Reed, Marion Phelps, Katie Altobello, Paula Morreale, Chad Reese, & Nancy Kiernan (CDA)*



*Theresa Samosiuk – Recipient of Leadership Award; (l to r) Aaron Frame (CDA), Theresa Samosiuk, & Nancy Kiernan (CDA)*



*Brisbane Airport Corporation – Award for their Corporate Sustainability Strategy*

**Congratulations award winners!**  
**Made of reclaimed wood, these awards are a testament to the awardee's commitment to sustainability within the aviation industry.**

# AIRPORT ADAPTATION TO CLIMATE CHANGE

## Climate Shock Mitigation Strategies

Contributed by **Angie Fyfe**, Executive Director of ICLEI, Local Governments for Sustainability USA



*Cities and airports have the opportunity to work together in **building resiliency** through a shared approach.*

Climate shocks have significant and immediate impacts to infrastructure, resulting in economic losses that diminish a city's ability to recover. Chronic weather conditions, such as severe heat, takes a toll on airport employees and others working outdoors. The climate shock of Hurricane Katrina resulted in widespread infrastructure damage, a decline in city revenue, and a large reduction in New Orleans' permanent population.

"While we anticipate municipalities will adopt mitigation strategies for these events, costs to employ them could also become an ongoing credit challenge," Michael Wertz, a Moody's Vice President says.



Airports and the city-regions in which they operate mutually benefit from addressing environmental, economic, and social risks associated with climate change. Together, they can:

- **Identify** changing climate conditions that will impact the community
- **Match** climate threats with existing community systems
- **Identify** and organize stakeholders
- **Create** a vulnerability assessment that utilizes interdepartmental collaboration and community stakeholder engagement

The development and implementation of a climate resilience plan that identifies and addresses the shared risks to the city and the airport help to align and support goals to protect physical and human capital.

ICLEI – Local Governments for Sustainability actively works with 200+ U.S. cities and counties in the development of greenhouse gas inventories, climate mitigation plans and vulnerability assessments. ICLEI provides city-specific temperature and precipitation climate change indicators derived from statistically downscaled climate projections for North America and can help airports and host cities collaborate in the development and implementation of climate strategies.



*Photo courtesy of iclei.org*

For more information, please contact Angie Fyfe at [angie.fyfe@iclei.org](mailto:angie.fyfe@iclei.org). ICLEI's website is <https://www.iclei.org/>

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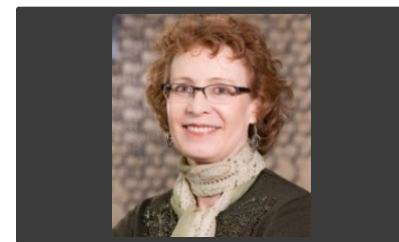
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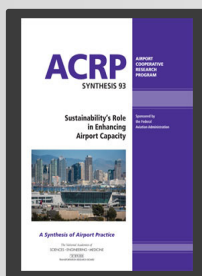
# AIRPORT COOPERATIVE RESEARCH PROGRAM (ACRP) PROJECT UPDATES

Contributed by **Gail Staba** ([gstaba@nas.edu](mailto:gstaba@nas.edu)), ACRP, Transportation Research Board



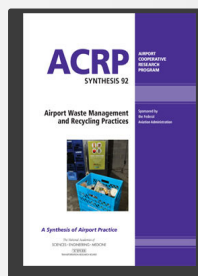
The following sustainability-related ACRP reports were contributed by Gail Staba of the Transportation Research Board. These reports are useful in professional development and research within the world of transportation. Sustainability-related ACRP reports and resources are available at: [www.trb.org/Publications/PubsACRPPublications.aspx](http://www.trb.org/Publications/PubsACRPPublications.aspx)

The ACRP is an excellent source for the latest research and practical guidance, and the following environmental reports were published recently. Thank you to all expert panelists and researchers whose efforts resulted in these excellent guidebooks!



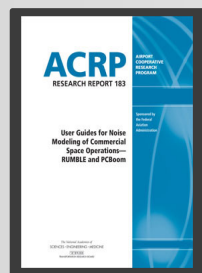
*Sustainability's Role in Enhancing Airport Capacity*  
**August 16, 2018**

Synthesis 93 compiles information and examples that successfully demonstrate the value of building sustainability concepts into capacity-enhancing projects.  
[www.trb.org/Publications/Blurbs/177706.aspx](http://www.trb.org/Publications/Blurbs/177706.aspx)



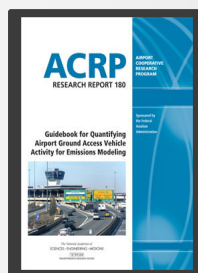
*Airport Waste Management and Recycling Practices*  
**September 13, 2018**

Synthesis 92 focuses on airport waste management and recycling practices that reduce impacts and costs to airports and their surrounding communities.  
[www.trb.org/Publications/Blurbs/177866.aspx](http://www.trb.org/Publications/Blurbs/177866.aspx)



*User Guides for Noise Modeling of Commercial Space Operations – RUMBLE and PCBoom*  
**April 24, 2018**

Report 183 provides user guides for noise modeling of commercial space operations. It offers guidance on using RUMBLE 2.0, which predicts rocket noise, and PCBoom4, which predicts sonic booms.  
[www.trb.org/Publications/Blurbs/177510.aspx](http://www.trb.org/Publications/Blurbs/177510.aspx)



*Guidebook for Quantifying Airport Ground Access Vehicle Activity for Emissions Modeling*  
**November 28, 2017**

Report 180 reviews the regulatory framework and significant of ground access vehicle (GAV) emissions in an airport setting.  
[www.trb.org/Publications/Blurbs/176779.aspx](http://www.trb.org/Publications/Blurbs/176779.aspx)

## RESEARCH UNDERWAY

## STATUS

02-69	Integrating Airport Sustainability and the NEPA Process	Active
02-70	Wetland Mitigation – A guidebook for Airports	Active
02-71	Guidebook and Decision Tool for Management Airport Stormwater Containing Deicers	Active
02-72	Developing a Comprehensive Renewable Resources Strategy	Active
02-73	Interactive Tool for Understanding NEPA at General Aviation Airports	Active
02-74	Using Existing Airport Management Systems to Manage Climate Risk	Pending
02-75	Benefit-Cost Analyses Guidebook for Airport Stormwater	Active
02-76	Optimizing the Use of Electric Pre-Conditioned Air (PCA) and Ground Power Systems at Airports	Active
02-77	Revolving Funds for Sustainability Projects at Airports	Active
02-78	Climate Resilience and Benefit Cost Analysis – A Handbook for Airports	Active
02-79	Improving AEDT Modeling for Aircraft Noise Reflection and Diffraction from Terrain and Manmade Structures	Active
02-80	Quantifying Emissions Reductions at Airports from the Use of Alternative Jet Fuels	Active
02-81	Commercial Space Operations Noise and Sonic Boom Measurements	Active
02-82	Developing a Roadmap to Achieve Zero Emissions at Airports	Pending
02-83	Measuring Quality of Life in Communities Surrounding Airports	Pending
02-84	Evaluating the Use of Spatially Precise Diurnal Population Data in Aviation Noise Studies	Pending

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## UPCOMING EVENTS & LOCATION

Airports Council International – North America (ACI-NA)	
Jan. 15-16	Innovation @ Airports <i>San Diego, CA</i>
April 1-4	Airports @ Work <i>Salt Lake City, UT</i>
Sep. 15-17	2019 Annual Conference & Exhibition <i>Tampa, FL</i>
Fall 2019	ACI-NA/AAAE Noise Conference <i>TBD</i>
December 2019	NEPA & Planning Conference <i>TBD</i>
American Association of Airport Executives (AAAE)	
June 16-19	91 <sup>st</sup> Annual AAAE Conference & Exposition <i>Boston, MA</i>
Fall 2019	12 <sup>th</sup> Airports Going Green <i>Returning to Chicago!</i>
Airport Consultants Council (ACC)	
Feb. 20-22	ACC/AAAE Airport Planning, Design, & Construction Symposium <i>Denver, CO</i>
Nov. 11-13	41 <sup>st</sup> Annual Conference & Exposition <i>Palm Springs, CA</i>
American Society of Civil Engineers (ASCE)	
May 19-23	World Environmental & Water Resources Conference <i>Pittsburgh, PA</i>
Nov. 7-9	International Conference on Sustainable Infrastructure <i>Los Angeles, CA</i>
U.S. Green Building Council (USGBC)	
Mar. 19-20	Greenbuild 2019 <i>Amsterdam, Netherlands</i>
Transportation Research Board (TRB)	
Jan. 13-17	TRB Annual Meeting, <i>Washington, D.C.</i>

## Welcome Tami, Incoming Co-Chair!



Tami McCrossen-Orr is the manager of Los Angeles World Airports' sustainability program. She comes from a background in sustainability consulting and was a practicing attorney in the areas of civil litigation and administrative law. Welcome, Tami!

## Me and the Munchkin *SWG Chair Danielle and Ellie!*



Danielle and Ellie at one of Philadelphia International Airport's new Mamava lactation suites!  
([www.phl.org/Pages/Passengerinfo/Mothers-Nursing-Station.aspx](http://www.phl.org/Pages/Passengerinfo/Mothers-Nursing-Station.aspx))



Happy holidays from the jolly Ricondo SWG Newsletter Team!



Thank you to Gene Peters, Casey Venzon, and Delaney Johnston of Ricondo & Associates for their contributions to this newsletter.

Newsletter Prepared by Ricondo & Associates, Inc.

 SEND YOUR IDEAS TO:

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