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City of Sunnyvale

Notice and Agenda - Final Sustainability Commission

Tuesday, February 21, 2017

7:00 PM

West Conference Room, City Hall, 456 W.
Olive Ave., Sunnyvale, CA 94086

CALL TO ORDER

SALUTE TO THE FLAG

ROLL CALL

PRESENTATION

- 1 [17-0259](#) PRESENTATION - Climate Action Plan Overview

ORAL COMMUNICATIONS

This category provides an opportunity for members of the public to address the commission on items not listed on the agenda and is limited to 15 minutes (may be extended or continued after the public hearings/general business section of the agenda at the discretion of the Chair) with a maximum of up to three minutes per speaker. Please note the Brown Act (Open Meeting Law) does not allow commissioners to take action on an item not listed on the agenda. If you wish to address the commission, please complete a speaker card and give it to the Recording Secretary. Individuals are limited to one appearance during this section.

CONSENT CALENDAR

- 2 [17-0257](#) Approve the Sustainability Commission Meeting Minutes of January 17, 2017

Recommendation: Approve the Sustainability Commission Minutes of January 17, 2017 as submitted.

Attachments: [DraftMeetingMinutes17-Jan-2017.pdf](#)

PUBLIC HEARINGS/GENERAL BUSINESS

- 3 [17-0258](#) Review Draft Proposal for 2017 Sustainability Speaker Series

Attachments: [SC Speakers Series Subcommittee proposal 2-17.pdf](#)

- 4 [17-0260](#) Discussion of Draft 2017 Annual Master Work Plan

Attachments: [Sustainability Commission Annual Work Plan 2017 draft.d](#)

STANDING ITEM: CONSIDERATION OF POTENTIAL STUDY ISSUES

NON-AGENDA ITEMS & COMMENTS

-Commissioner Comments

-Staff Comments

INFORMATION ONLY REPORTS/ITEMS

ADJOURNMENT

Notice to the Public:

Any agenda related writings or documents distributed to members of this meeting body regarding any item on this agenda will be made available for public inspection in the Environmental Services Department located at 1444 Borregas Avenue, Sunnyvale or can be accessed through the Office of the City Clerk located at 603 All America Way, Sunnyvale during normal business hours and in the meeting location on the evening of the Sustainability Commission meeting, pursuant to Government Code §54957.5.

Agenda information is available by contacting Nupur Hiremath at (408) 730-7743. Agendas and associated reports are also available on the City's website at sunnyvale.ca.gov or at the Sunnyvale Public Library, 665 W. Olive Ave., Sunnyvale, 72 hours before the meeting.

Pursuant to the Americans with Disabilities Act, if you need special assistance in this meeting, please contact Nupur Hiremath at (408) 730-7743. Notification of 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting. (29 CFR 35.106 ADA Title II)



City of Sunnyvale

Agenda Item

17-0259

Agenda Date: 2/21/2017

PRESENTATION - Climate Action Plan Overview



City of Sunnyvale

Agenda Item

17-0257

Agenda Date: 2/21/2017

SUBJECT

Approve the Sustainability Commission Meeting Minutes of January 17, 2017

RECOMMENDATION

Approve the Sustainability Commission Minutes of January 17, 2017 as submitted.



City of Sunnyvale

Meeting Minutes - Draft

Sustainability Commission

Tuesday, January 17, 2017

7:00 PM

West Conference Room, City Hall, 456 W.
Olive Ave., Sunnyvale, CA 94086

CALL TO ORDER

Chair Paton called the meeting to order at 7:01 p.m. in the West Conference Room.

SALUTE TO THE FLAG

Chair Paton led the salute to the flag.

ROLL CALL

Present: 5 - Chair Bruce Paton
Vice Chair Amit Srivastava
Commissioner Petya Kisyova
Commissioner Kristel Wickham
Commissioner Steven Zornetzer

Absent: 1 - Commissioner Dan Hafeman

Commissioner Hafeman's absence is excused.

Council Liaison – Larry Klein (present)

ORAL COMMUNICATIONS

None.

CONSENT CALENDAR

1 [17-0118](#) Approve the Sustainability Commission Meeting Minutes of December 19, 2016

Vice Chair Srivastava moved, and Commissioner Zornetzer seconded, a motion to approve the December 19, 2016 meeting minutes. The motion carried by the following vote:

Yes: 5 - Chair Paton
Vice Chair Srivastava
Commissioner Kisyo
Commissioner Wickham
Commissioner Zornetzer

No: 0

Absent: 1 - Commissioner Hafeman

PUBLIC HEARINGS/GENERAL BUSINESS

2 [17-0116](#) Sustainability Speaker Series Subcommittee Report

Commissioner Wickham provided an update on the Sustainability Speaker Series Subcommittee's efforts. The Subcommittee met with staff (Elaine Marshall, Environmental Programs Manager, and Melody Tovar, Regulatory Programs Division Manager) to discuss ideas for topics, speakers, and potential venues. Some topics considered by the Subcommittee include electrification and resource use.

The Subcommittee will present a report with its recommendations to the Commission at the Commission's February meeting and, subsequently, to City Council for approval in March. The first event is tentatively scheduled for May or June. Melody Tovar clarified that the funding for the Speaker Series would be for the fiscal year (July-June) but that it could be rolled over into the subsequent fiscal year, if needed.

3 [17-0117](#) Discussion of Sustainability Commission 2017 Work Plan

The Commission identified several areas of focus (e.g., green building, transportation), but ultimately agreed that its 2017 Work Plan should be grounded in the City's Climate Action Plan (CAP). Chair Paton identified two broad goals for the Work Plan: (1) to work with staff to periodically review, in greater depth, a section of the Climate Action Plan (CAP), its implementation status, and gap analysis relative to new state targets; (2) to discuss leading edge sustainability efforts made by neighboring communities and their applicability and relevance to Sunnyvale.

Chair Paton proposed that he and Vice Chair Srivastava would collaborate with staff to develop a draft Work Plan for 2017 and bring it to the Commission for input

at the February meeting.

STANDING ITEM: CONSIDERATION OF POTENTIAL STUDY ISSUES

Vice Chair Srivastava shared an idea for a potential study issue to create a Library of Things (inspired by a similar effort in the City of Boston), which would allow residents to borrow infrequently used objects from the library rather than having to own them individually.

Commissioner Kisyoova suggested reaching out to other commissions to collaborate on study issues and suggested that Sustainability Commissioners occasionally attend meetings of other commissions.

Councilman Larry Klein noted that he had requested the City Manager to update the Study Issue website to reflect institutional knowledge of past proposed Study Issues. This would provide information to commissions and Council on previously proposed but unranked Study Issues, so that potentially useful ideas, which may have been put aside in the past, could be revisited as needed.

Commissioner Zornetzer proposed examining whether the urban heat island effect and its relevance in Sunnyvale as a potential study issue. Chair Paton suggested that this could be a commissioner presentation in 2017. Melody Tovar noted that there is a CAP action (EC-6) related to requiring installation of cool roofs and noted that staff could provide an update on the implementation status of this action at a subsequent meeting.

NON-AGENDA ITEMS & COMMENTS

-Commissioner Comments

Commissioner Wickham discussed “A Convenient Truth,” a movie made about a town in Brazil that had made significant sustainability changes with exemplary collaboration between the government and the community.

Chair Paton noted that he had read an article on efforts by the real estate industry to repurpose parking garages (e.g., converting to office space) in cities with decreased demand for car transportation. He noted that a policy approach could help shift the focus away from car transportation and that Sunnyvale’s Peery Park project was a good case study for the City to learn from. Commissioner Kisyoova noted that publicly funded or supported solutions are not always necessary for solving the transportation problems.

-Staff Comments

Melody Tovar offered that staff could help Commission review the CAP, outlining its organization and its components, to help the Commission better understand it.

ADJOURNMENT

The meeting was adjourned at 8:42 p.m.



City of Sunnyvale

Agenda Item

17-0258

Agenda Date: 2/21/2017

Review Draft Proposal for 2017 Sustainability Speaker Series

Sunnyvale Sustainability Commission Sub-Committee Proposal for 2017 Inaugural Sustainability Speaker Series



Kristel Wickham
Steve Zornetzer
February 21, 2016

Goals

- Educate, Engage and Motivate residents and businesses to take action on key sustainability issues in Sunnyvale. Tie into what is important to people and how the topics directly affect them.

Proposal

City of Sunnyvale Speaker's Series - Practical Sustainability

The following is a proposal for the first 3 events in the Sustainability Speaker Series. The topics are relevant to residents and businesses in Sunnyvale and compliment the roll-out of local initiatives Silicon Valley Clean Energy and the Food Scraps program which are launching this year.

1. Electrification (Home and Business):

Two steps to Sustainable Energy. Clean up Electricity and Electrify Everything.

Hook: Save money over time using electricity to heat your home and business while supporting the transition to clean greenhouse gas free energy.

Introduction: Community Choice Energy (SVCE Speaker – James Tuleya, Don Bray, Pamela Leonard, or Melody Tovar)

Main Speaker: Building Electrification (Speaker **Pierre Delforge** of Natural Resources Defense Council)

Content: Why convert from natural gas to electricity for heating homes and businesses? Current cost effective options for residential space heating, water heating and clothes drying. Options for commercial building fuel switching to electricity.

Discussion and Q&A about costs of fuel switching, economics of rooftop solar vs. CCE, case studies, and resources available.

Speaker Profile — Electrification, Home and Business



- **Pierre Delforge** Director, High Tech Sector Energy Efficiency, Energy & Transportation Program
- **Areas of Focus** Energy efficiency, information technology, consumer electronics, appliance codes and standards.
- **Bio** Pierre joined NRDC in April 2010 after 20 years in the I.T. industry where he worked in software development, hardware integration and most recently as the lead for HP's energy and climate strategy. At NRDC Pierre focuses on reducing the electricity consumed by information technology and consumer electronics in spite of their rapid growth. While information technology has a tremendous potential to transform the way we live and work and help the world transition towards a low-carbon economy, the global explosion in the number of electronics devices continues to make energy efficiency of electronics and the internet a critical priority. Pierre received a M.S. from Ecole Centrale de Paris and Diploma in Computer Science from Cambridge University. He started his career in the UK and France, and moved to the Silicon Valley in 2004.
- [Pierre Delforge Blog Very Cool Heat Pump Water Heaters save energy and money](#)
- [Pierre Delforge Blog Slashing emissions from fossil fuels burned in buildings](#)

Proposal

City of Sunnyvale Speaker's Series - Practical Sustainability

The second event will also complement the roll-out of Silicon Valley Clean Energy.

1. Electrification (Transportation)

Two steps to Sustainable Energy. Clean up Electricity and Electrify Everything.

Hook: Reduce pollution, never go to a gas station again, and support the transition to greenhouse gas free electric transportation.

Introduction: Community Choice Energy (SVCE Speaker – James Tuleya, Don Bray, Pamela Leonard, or Melody Tovar)

Main Speaker: Electrifying Transportation (Speaker – **Sarah Jo Szambelan** SPUR, or Luke Tonachel NRDC Director, Clean Vehicles and Fuels)

Content: Why convert transportation from petroleum fuels to electricity? Opportunities for personal automobiles, municipal fleets, public transportation, and shipping/rail/trucking. Benefits for human health and the environment. Infrastructure and policies needed to speed the transition.

Discussion and Q&A about costs and incentives for Electric Vehicles, Charging infrastructure, Train electrification, case studies, and resources available.

Speaker Profile – Electrification of Transportation



Sarah Jo Szambelan Research Manager Public policy and economic research, data science, GIS at SPUR (San Francisco Bay Area Planning and Urban Research Association)

2016 Report Fossil Free Bay Area

<http://www.spur.org/publications/spur-report/2016-09-21/fossil-free-bay-area>

Proposal

City of Sunnyvale Speaker's Series - Practical Sustainability

The third event will complement the roll-out of the Food Scraps program.

1. Zero Waste Journey

Hook: Save money, Simplify your life, Eat more nutritious food and Protect the environment by following the 5 R's – Refuse (to buy trash), Reduce, Re-use, Recycle, and Rot

Introduction: Sunnyvale ESD designated speaker on upcoming food scraps program (timing, what to expect, how to participate).

Main Speaker – Zero Waste (Speaker **Bea Johnson** Author of Zero Waste Home, Speaker and Blogger or Tim Oey Sunnyvale Resident, Zero Waste Blogger and BPAC Commissioner or Wendy Hediger, Zero Waste Coordinator at City of Palo Alto)

Content: Simple changes you can make at the grocery store, other stores and online to practically eliminate household waste. Impact of Zero waste for the city, residents and businesses.

Discussion and Q&A: Questions about particular waste challenges, available resources.

Speaker Profile – Zero Waste Journey



Bea Johnson - Author of **Zero Waste Home**,
Speaker, blogger

- [Bea Johnson TEDX talk](#)
- [Bea Johnson Zero Waste Home video](#)
- [Bea Johnson talk at Google](#)

Proposal

City of Sunnyvale Speaker's Series - Practical Sustainability

Consideration should be taken to 'marketing' the events through appropriate community awareness channels (City's Quarterly Report, Library event notifications, The Sun, social media such as NextDoor, city website, etc.)

- To encourage participation, some refreshments should be served – possibly donated by local Green Businesses.
- Events should be videotaped and made available on the Community TV channel as well as on appropriate city website pages.
- Following each event, feedback should be gathered from participants to identify positive and negative elements and to tune the content and topics for future events.
- As a supplement to the speakers series we recommend a curated website of videos to educate residents and businesses on various aspects of sustainability. Recommendations would be made by Sustainability Commission with ESD staff having the role of curating the content that could be added to the existing Sustainability website. Approvals for website content would go through established city channels.

Next Steps

1. Meet with City Staff prior to January Commission meeting to discuss more detailed options. – Done 1-13-17 (Kristel, Steve, Elaine, Melody)
2. Research speakers for “Electrification” and “Resource Use” topics. (Done, Kristel, Elaine, Steve)
3. Present plan for first events to Sustainability Commission for approval at February meeting.
4. Present plan to Council in March.
5. Once approved, Environmental Services Department Staff arrange specifics (dates, venues, speaker engagements, payments) and publicizes the events.
6. Environmental Services Department hosts events.
 - Include Refreshments
 - Gather feedback to identify improvements for future events.
 - Take video of events to broadcast on Community TV and post on city website.



Appendix

and Resources

Topics

Water

- Purple Pipes – Recycled water network expansion
- Earthquake preparedness of the water supply
- Graywater systems & Storm water catchment
- Drought effects on Snowpack, Groundwater

Climate Change

- Adaptation
- Climate Action Plan
- Carbon Footprint

Energy

- Community Choice Energy
- Home Electrification / Net Zero Energy use / Electric Vehicles
- Renewables for Home & Business
- Home & Business Efficiency Upgrades

Land Use & Transportation

- Open Space
- Traffic Reduction, Transportation alternatives, Electrifying Transportation
- Smart Growth
- Smart Cities

Resource Use

- Circular Economy
- Zero Waste - Recycling, Food Scraps, Composting
- Chemical Contaminants / Pesticides
- Ocean Plastics

Venue and Publicity Ideas

- Venues (depending on expected number of attendees)
 - Council Chambers (Allows for convenient videotaping for TV)
 - Library
 - Community Center
 - Theater or Auditorium
- Publicity
 - Sunnyvale.ca.gov website
 - Sunnyvale SUN Newspaper
 - NextDoor Mobile App
 - Library Events Electronic Display
 - Wolfe & El Camino Banner
 - Quarterly Report Newsletter
 - Other

Speaker and Panelist options (preliminary)

Name	Affiliation / Title	Theme / Topic	Commissioner or Contact
William McDonough	Author – Cradle to Cradle	Intelligent Design, Wise Resource Use	Zornetzer
Dame Ellen MacArthur	Ellen MacArthur Foundation	<u>Circular Economy</u>	
Will Travis	Consultant, writer, teacher	<u>Impacts of Climate Change Driven Sea Level Rise</u>	Wickham
Jason McLennan	CEO McLennan Design	Communities of the Future	<u>Ecospeakers.com</u>
Kimber Lanning	Local First Arizona	Smart Growth, Urban Planning	
Jay Famiglietti	Hydrologist, UC Irvine & JPL	California Drought	
Bruce Lourie	Environmental Policy Author	Failed Sustainability	
Charlie Gay	DOE Sunshot Director	Future of Photovoltaics	Wickham
Tom Werner or Richard Swanson	CEO or Founder – SunPower	Going Solar & Industry trends	Wickham
	NOAA	Sea level rise in bay area	Zornetzer
	USGS	Drought forecasts for Bay Area	Zornetzer
Michael Brune	Sierra Club		
Don Weden	Retired Santa Clara County Planner	Smart Growth	
Stephanie Reyes	Interim CEO, Greenbelt Alliance	Water and sustainability in CA	
Erik Walukiewicz	Fremont Union HSD, Facilities	Area High Schools – Sustainability initiatives	Wickham

Speaker and Panelist options (preliminary)

Name	Affiliation / Title	Theme / Topic	Commissioner or Contact
Sarah Jo Szambelan	SPUR	Electrification	Wickham / Marshall
Gil Friend	Chief Sustainability Officer, City of Palo Alto	Electrification, Zero Waste,	Marshall
Andy Hoskinson	Center for Sustainable Energy (Oakland-based)	EV Implementation	SPUR
Cal Silcox	PG&E	PG&E's electric vehicles program	SPUR
Regan Zane	Professor of Electrical and Computer Engineering, and Founder and Director of the Center for Sustainable Electrified Transportation (SELECT), Utah State University	Transportation Electrification: Technologies Towards a Sustainable Future for Transportation Systems	
Dom Nozzi	City planner with extensive experience in pedestrian and trail planning as well as in planning to protect the living urban environment. Executive Director of Walkable Streets Urban Design.	Author of <u><i>Road to Ruin: An Introduction to Sprawl and How to Cure It</i></u> ,	

Approaches

- One Speaker per event, and events rotate through various Sustainability topics
- Panel Discussion with multiple experts on a given theme. Each event has a different theme.
- Annual Themes with each event either a Panel Discussion or individual Speakers
- Cover both regional and local issues and initiatives

Themes

➤ Threats to our region and adaptation strategy

- Climate Change
- Transportation
- Housing
- Open Space
- Drought

➤ Sunnyvale local initiatives

- Community Choice Energy
- Solid Waste Reduction (Food Scraps)
- Water Pollution and Control / Recycled Water / Graywater & rainwater collection
- Climate Action Plan – Progress and Future Plans
- Land Use & Transportation (Smart Cities)
- Sustainability in our Schools

➤ What you can do - Home & Business

- Home Energy Audit, Financing & Upgrades
- Carbon Footprint
- Plastic Packaging, Composting, Recycling
- Chemicals in Home & Garden
- Electrification (Home and Auto)
- Going Solar

➤ Smart Cities

- Transportation / Walkable Cities
- Land Use / Urban Planning / Smart Growth
- Systems Thinking / Internet of Things / Energy & water monitoring and control

Individual Speakers

- Multiple potential speakers identified
 - William McDonough – “Cradle to Cradle” Author
 - NOAA expert on sea level rise in Bay Area
 - USGS expert on drought forecasts for Bay Area
 - Dept. of Energy SunShot Initiative Director on the future of photovoltaics
 - Community planning expert on “Smart Cities”

➤ Multiple Panel possibilities identified

*Local Sunnyvale Sustainability Initiatives Panel

- Smart Growth
- Land Use
- Transportation: Limitations and Opportunities
- Walkable City
- Sustainability in our schools

*Smart Cities Panel

- Retrofitting existing infrastructure
- Benchmarking - Success Stories
- What is a “Smart City”?

Resources for connecting with Speakers

- Sustainability Commissioner Professional Networks
- Environmental Services Staff Professional Networks
- Sunnyvale Cool
- www.ecospeakers.com
- US Green Building Council
- American Institute of Architects
- Silicon Valley Leadership Group
- Acterra
- Greenbelt Alliance
- 350.org
- Sierra Club
- Natural Resources Defense Council
- Silicon Valley Toxics Coalition
- Sustainability Advocates in Universities, Businesses, Local and State Government



City of Sunnyvale

Agenda Item

17-0260

Agenda Date: 2/21/2017

Discussion of Draft 2017 Annual Master Work Plan

2017 Master Work Plan

Sustainability Commission Annual Calendar

MEETING DATE	AGENDA ITEM/ISSUE
January	<ul style="list-style-type: none"> • Discussion of draft 2017 Annual Master Work Plan • Sustainability Speaker Series
February	<ul style="list-style-type: none"> • Discussion of draft 2017 Annual Master Work Plan • Sustainability Speaker Series • CAP Overview Presentation
March	<ul style="list-style-type: none"> • Staff Report on Animal Assisted Happiness at Baylands Park • PACE Program Evaluation • Approve Final Work Plan
April	<ul style="list-style-type: none"> • CAP Implementation Update
May	<ul style="list-style-type: none"> • Commissioner Presentation – Leading edge building code practices
June	<ul style="list-style-type: none"> • Commissioner Presentation – Leading edge transportation programs
July	<ul style="list-style-type: none"> • Election of Officers • Commissioner Presentation – leading edge residential energy practices
August	<ul style="list-style-type: none"> • Review and Discuss Draft Study Issues • CAP Update (placeholder)
September	<ul style="list-style-type: none"> • Review and Discuss Draft Study Issues • Commissioner Report – TBD
October	<ul style="list-style-type: none"> • Rank Study Issues • CAP Update (placeholder)
November	<ul style="list-style-type: none"> • Study Issues Ranking • Annual Review of Code of Ethics and Conduct for Elected and Appointed Officials
December	<ul style="list-style-type: none"> • CAP Update (placeholder)

Topics to be scheduled:

- Building Code Basics
- City Green Building Code Update Progress