

STEPS Lookback Modeling Workshop

(In Conjunction with STEPS Fall Symposium on Dec. 10 (Separate Registration))

Agenda and Speakers

December 9, 2015

11:00 am - 6:00 pm

1605 Tilia Street, UC Davis-West Village

Wi-Fi: <ul style="list-style-type: none">- Connect to wireless network: ucd-guest- Launch a web browser- Follow the prompts to set up a ucd-guest account	Event Files: <ul style="list-style-type: none">- Log in at www.steps.ucdavis.edu- Password: STEPS2015
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Workshop Goals and Objectives – Dec. 9 Workshop

This workshop will provide an opportunity for the modelers to: 1) survey the landscape of retrospective analyses in the energy sector and 2) understand the value added from these analyses among different stakeholders.

Goals of the workshop include:

- Understand motivations behind use of retrospective analyses: the typology of models and how look-back analysis differs among them
- Compare how models have evolved over time, what are the motivations for improvements
- Discuss techniques modelers use for retrospective analyses
- Compare insights gained from use of look-back analysis and gauge their effectiveness: incremental improvements in accuracy versus black swan type events

Agenda – Dec. 9 Workshop

10:45 – 11:00am	Registration & Coffee
11:00 – 11:35	Welcome and Arrival Session (UC Davis) Overview of the topic and introduction to retrospective analysis for forward-looking models <ul style="list-style-type: none">• Motivation/project & workshop overview• Model types (e.g., expert elicitation, trend/regression, top-down multi-sector, bottom-up engineering/economic; varying timeframes and objectives) & retrospective ‘entry points’ (e.g., outcomes, baseline data, model parameters, model structure)• Considerations regarding the use of retrospective analysis <i>Discussion on framework/themes {~10 mins}</i>

<p>11:35 – 12:40pm</p>	<p>Session 1: Model overview and descriptions – ‘lightning round’ (Chairpersons: <i>Julie Witcover, Alan Jenn, and Lew Fulton</i>)</p> <p>Presentations from modeling teams (contacts): STEPS-Hydrogen (Joan Ogden); Chevron (Matt Franklin), Dep’t of Energy/Sandia National Lab (Jake Ward), STEPS-CA-TIMES (Chris Yang) {40 mins}</p> <ul style="list-style-type: none"> • 8 minutes per round + clarifying questions • Framework for presentation: <ul style="list-style-type: none"> ○ Model description and type ○ Model use and purpose(s) ○ How long has the model been in use? <p>Participant ‘lightning round’: who you are and a sentence on what brings you to the lookback workshop (models/interests/concerns) {~15mins}</p> <p><i>Discussion on models & motivations for retrospectives {~10 mins}</i></p>
<p>12:40 – 1:30</p>	<p>Lunch (on site)</p>
<p>1:30 – 4:00</p> <p>[Coffee break ~3:15]</p>	<p>Session 3: Survey of retrospective modeling activities (Chairpersons: <i>Julie Witcover, Alan Jenn, and Lew Fulton</i>)</p> <p>Presentations from modeling teams (as above):</p> <ul style="list-style-type: none"> • 20-25 minutes per round + 5 minutes for clarifying questions • Framework for presentation: <ul style="list-style-type: none"> ○ How has the model evolved over time? ○ What sorts of retrospective analyses have been done relating to the model (or its predecessors)? <ul style="list-style-type: none"> ▪ Updating inputs ▪ Lookback analysis of outputs ▪ Model changes (e.g., structural) ○ What primary insights have modelers gained from retrospective analysis? What exercises proved to be less useful? ○ What has been (or might be) the role of retrospective analysis in honing modeler or model user intuition and communication of model outputs? <p><i>Discussion on retrospective analyses: approaches/uses/lessons {~30 mins}</i></p>
<p>4:00 – 5:00</p>	<p>Round Table Discussion, Reception at 5 (Chairpersons: <i>Julie Witcover, Alan Jenn, and Lew Fulton</i>)</p> <ul style="list-style-type: none"> • Quick summary of areas of concern {elicited from audience throughout} • Discussion/exercise: retrospective analysis – takeaways or food for thought from the day? Changes/supplements to template?
<p>5:00 – 6:00</p>	<p>Reception at the HUB (West Village)</p>

List of registrants

First Name	Last Name	Job Title	Organization/Company
Jeremy	Herbert	Air Resources Engineer	Air Resources Board
Cody	Howard	Air Resources Engineer	Air Resources Board
Jamie	Davies	Senior Environmental Affairs Analyst	American Honda Aramco Services Company
Steven	Przesmitzki	Strategic Transport Analysis	Aramco Services Company
Xin	He	Fuels Technical Specialist	Aramco Services Company
Jean-Christophe	Monfort	Research Engineer	Aramco Services Company
Jessey	Bouchard	Research Scientist	Aramco Services Company
Huilan	Han	Transportation	Caltrans
soheila	Khoii	Research Manager II	Caltrans
Brett	Williams	Sr. Project Manager, EV Initiatives	Center for Sustainable Energy (CSE)
Matt	Franklin	Senior Decision Analyst/Lead Research Engineer	Chevron
Doug	Spooner	Senior Business Analyst	Chevron
W. Ross	Morrow	Analytics Scientist, Project Leader, Big Data and Analytics Lead in Palo Alto	Ford Motor Company, Global Data Insight and Analytic
Rosa	Dominguez-Faus	Postdoctoral Researcher	ITS-Davis
Paul	Gruber	STEPS Exec Dir	ITS-Davis
Mike	Nicholas	Researcher	ITS-Davis
Joan	Ogden	Professor, Co-Director STEPS	ITS-Davis
Chris	Yang	Research Scientist	ITS-Davis
Lew	Fulton	Co-Director STEPS	ITS-Davis
Colin	Murphy	Climate Policy Advocate	NextGen Climate America
Rebecca	Levinson	Analyst	Sandia
David	Bunch	Prof.	UC Davis
Gouri	Mishra	phd student	UC Davis
Julie	Witcover	Assistant Project Scientist	UC Davis
Alan	Jenn	Postdoctoral Scholar	UC Davis
Jeremy	Martin	Sr. Scientist & Fuels Lead	Union of Concerned Scientists
Jacob	Ward	Program Manager	US Department of Energy
David	Gohlke	AAAS Science and Technology Policy Fellow	US Department of Energy

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