



Princeton SmartDrivingCars Summit

*Bringing Together
Buyers, Sellers & Facilitators
For Making It Happen Now*

*Opportunities & Implications for Communities, Corporations & Consumers
In
Achieving Safety, Convenience & Mobility for All*

Wednesday & Thursday May 17 & 18, 2017

Princeton University
Princeton, New Jersey

Sponsored by

Princeton University
Princeton Mellon Initiative
New Jersey Manufacturers Insurance
National Renewable Energy Laboratory
Automated Public Transit Risk Consulting
Alliance for Transportation Innovation, ATI21
Department of Operation Research & Financial Engineering
University Transportation Research Consortium, Region 2
Advanced TRansit Association (ATRA)
New Jersey Agents Alliance
I-95 Corridor Coalition
Bel Air Partners
Soterea, Inc.

Program

Bringing together: Buyers, Sellers and Facilitators For Making It Happen Now

Tuesday, May 16

6:30pm -> 9:30pm **Welcome Reception** *42 Cleveland Lane, Princeton (Peach House, Orange Door)*

Wednesday, May 17

8:00am -> 8:45am **Registration and Continental Breakfast** *Carl Fields Center (corner of Olden St. & Prospect Ave)*

8:45am **Welcome & Framework** Co-Chairs: Prof. Kornhauser & Christine O'Brien, Pres. Insurance Council of NJ
Carl Fields Center

9:00am-> 12:30pm **The Global View:** Moderator: Alain Kornhauser (Princeton University)

1. 9:00am **The Business Case:** Adam Jonas (Morgan Stanley) (via Video)
2. 9:20am **AVs Mobility Opportunities & Challenges for Communities:** Bern Grush, (Principal, Grush Niles Strategic)
3. 9:40am **Where's Washington on AVs?:** Paul Brubaker (CEO, ATI21.org)
4. 10:10am **How well does ACA work in a Testing Environment?:** Kim Hazelbaker (Senior Advisor to the Highway Loss Data Institute & SVP of IIHS)

10:30 -> 10:40 Break

5. 10:40am **Community Safety & Vision Zero, a view from NYC:** [Keith T. Kerman](#) (NYC)
6. 11:00am **What's Available in Driverless Today & View from Europe:** Adriano Alessandrini (U of Rome)
7. 11:20am **What's the AI Community Producing Today, a View from nVIDIA:** Danny Shapiro (Director, Automotive, nVIDIA)
8. 11:40am **LIDAR State of the Art:** John Eggers (Director of Automotive, Velodyne)

Noon -> 1:30pm **Lunch & Regulators: Facilitating Technological Innovation in AVs:** Moderator: Prof. Edward Felton, Computer Science, Princeton University *Carl Fields Center*

12:30pm **Facilitating Driverless:** Bernard Soriano (Dep. Dir. CA DMV)

12: 50pm **Facilitating Safety & Standardization:** Nathaniel Beuse (Assoc. Adm. NHTSA)

2:00pm -> 4:00pm **Insurance: Facilitating Technological Innovation in AVs:** Moderator: Jerry Spears
Principal, Automated Public Transit Risk Consulting *Carl Fields Center*

2:00pm **How Insurance has begun to Facilitate the adoption of Collision Avoidance Technology.**

1. **The Washington State Bus Transit Experience:** Jerome Lutin (Retired NJ Transit Executive)
2. **Collision Avoidance Systems in Buses:** Gary Roth & Visar Ramku, NY City Transit
3. **The national opportunities and challenges of Facilitating the adoption of AV technology by Insurance Pools:** Ann Gergen, Executive Director, AGRIP, national association of Insurance Pool

3:00pm **How Good is ACA today?**

1. **What's Safe-driving Cars are available in the car showroom today?** Sheldon Sandler (CEO Bel Air Partners) & Bill Cariss, Holman Auto Group
2. **How well has ACA worked in a Real Environment and How does Insurance Measure the Cost of Un-safety?:** Rick Gorvett, Senior Actuary, Casualty Actuarial Society
3. **European View of how Insurance can facilitate the adoption of AV Technology:** Jacques Amselem, Head of IoT, Allianz Technology

4:00pm -> 5:00pm **Mobility for All: Driverless Today:** Moderator: Ingmar Andreasson, Prof (retired) KTH Royal Inst. of Technology *Carl Fields Center*

What is available Today @ Low Speed: (5-10 minute presentations)

1. Driverless Transit, Perter Muller, President, PRT Consulting
2. Matt Lesh, Chief Commercial Officer, Coast Autonomous, Inc.
3. Easy Mile, Gilbert Gagnaire (Co-founder, Easy Mile) (Invited)
4. AutoKAB, Michel Parent, Co-founder
5. 2getThere, Wessel van der Pol, Applications Engineer
6. Best Mile, Leemor Chandally, Director of Strategic Partnerships, BestMile

6:00pm **Reception** & 7:00pm **Banquet** *Prospect House, Center Campus*

Discussion of today's presentations and preparation for tomorrow's Workshops

Thursday, May 18

8:30am -> 9:00 am **Continental Breakfast** *Carl Fields Center*

9:00am -> 12:30pm: **3 parallel Workshop Sessions each having the following structure:**

9:00am **Setting the table: Presentations by Stakeholders**
 10:30am **Open Discussion of Opportunities by Stakeholders and everyone else**
 11:15am **Open Discussion of Challenges**
 Noon -> 12:30 **Preparation of Key Findings, Needs & Actionable Next Steps**

Workshop 1: Community Planning & Near-term Deployment *Carl Fields Center*

Moderator: [Russ Mitchell](#) Technology Editor, LA Times

9:00am **Setting the Table Presentations:** (10-15 minute presentations)

Houston University District AV Transit Circulator System [Sam Lott](#), Prof, Texas So. Univ.

Greenville SC [Fred Payne](#) Greenville County Council,

Beverly Hills, CA [Grayson Brulte](#) Co-Founder / President Brulte & Company

Columbus, OH [Adam Sheets](#) AVP, HNTB Corp

Babcock Ranch, [Brian O'Looney](#) Torti Gallas and Partners

Princeton NJ [Alain Kornhauser](#) Prof., Princeton University

San Jose CA [Gary Hsueh](#) Senior Transportation Planner, ARUP

Mobility Needs of NY Communities [Joah Sapphire](#) Managing Partner Axial Capital Partners

Implications on Energy [Stan Young](#) Team Leader, Mobility Systems, NREL

Implications on Parking [Shannon McDonald](#) Assoc. Prof, So. Ill. Univ.

10:30am **Open Discussion of Opportunities**

Issues: Obtaining permission to 'Share the Road', Gated communities, Connecting the Disadvantaged, 1st/Last Mile Accessibility to Conventional Systems, Extension of ATNs...

Above speakers plus the following Discussants:

[Leemor Chandally](#) Director of Strategic Partnerships, BestMile

[Ingmar Andreasson](#) Retired Prof., Chalmers University

[Adriano Alessandrini](#) Prof. Univ. of Rome & Director CityMobil2

[Larry Fabian](#) Editor, TP Plus

[Grayson Brulte](#) Co-Founder / President Brulte & Company

[Ben Grush](#) Principal, Grush Niles Strategic

[Matt Lesh](#) Chief Commercial Officer, Coast Autonomous, Inc.

[Scott LeVines](#) Assist. Professor (Urban Planning), SUNY @ New Paltz

[Michel Parent](#) President AutoKAB

[Paul Brubaker](#), CEO, AT121

[Bernard Soriano](#), Assoc. Administrator, CA DMV

[Aaron Shkuda](#), Princeton University

[Peter Muller](#), President, PRT Consulting



[Ann Gergen](#) Executive Director, AGRIP, National Association of Insurance Pool

11:15am Open Discussion of Challenges

Issues: Insurance, Sources of Revenue: (Parking, citations), Police, Zoning & Land use...
Above Speakers & Discussants

Noon -> 12:30pm **Preparation of Key Findings, Needs & Actionable Next Steps**

Workshop 2: Insurance: Facilitating Adoption by Individuals, Corporations and Transit Agencies 125
Sherrerd Hall

Moderator: [John Cichowski](#), The Road Warrior columnist for The Record and NorthJersey.com

9:00am **Setting the Table Presentations:** (10-15 minute presentations)

Issues in Virginia [David Harmer](#) Administrator Virginia Transit Reliability Pool

City Fleets [Mahanth Joishy](#) Deputy Commissioner, Chief Fleet Officer NYC Admin. Services

Accounting for Insurance Pools [Chris Korgut](#), Principal Consulting Actuary

View from the Agencies [Joe Zigler](#) NJ Agents Alliance

The Fleet View of Insurance Walter Czarnecki, Exec. VP Penske Corp (Invited)

View from NYC Transit [Gary Roth](#) NY City Transit

What's in it for the Car Dealers [James Appleton](#) Pres. NJ Coalition of Automotive Retailers
(Invited)

View from Labor [Curtis Tate](#), VP, TWU of America (Invited)

10:30am **Open Discussion of Opportunities**

Issues: Reducing LOSS, Reducing Premiums, OSHA, Unions, Accessibility of workforce,
opportunities for the Roadway provider.

Above speakers plus the following Discussants:

[Rick Gorvett](#) Senior Actuary Casualty Actuarial Society

[Jacques Amselem](#) Head of IoT, Allianz Technology

[Christine O'Brien](#) President, Insurance Council of NJ

[Jerome Lutin](#) Principle, JM Lutin Consultants

[Visar Ramku](#) NY City Transit

[Sheldon Sandler](#) CEO Bel Air Partners

[Lauren K. Cochran](#) Director of Innovation Met. Transit Authority of Harris County

[Edward Cameron](#), Administrator, Maryland State police

11:15am **Open Discussion of Challenges**

Issues: Insurance regulation, Who will lead? What about Goods movement & logistics, Where is
product liability?

Above Speakers & Discussants

Noon -> 12:30pm **Preparation of Key Findings, Needs & Actionable Next Steps**



Workshop 3: AI and Component Technology *101 Sherrerd Hall*

Moderator: [Fred Fishkin](#) Editor [Techstination](#)

9:00am **Setting the Table Presentations** (10-15 minute presentations)

One Investor's View Will Ford'15, Analyst Fontinalis

CNNs & Safe Driving: Past, Present & Future Yann LeCun NYU & Facebook

DeepDriving Chenyi Chen*16, Princeton University & nVIDIA

E2E Learning for Autonomous Driving Urs Muller, nVIDIA

The Virtues of Virtual Reality [Artur Filipowicz](#)'17 & [Nayan Bhat](#)'17, Princeton University

Virtual Environments [Reuben Steiger](#) Founder, Ringleader

Simulation Efforts at NYU [Kaan Ozbay](#), Prof. NYU

Affordable mapping [Ro Gupta](#)'00 CEO, Co-founder Carmera

10:30am **Near-term Technological Opportunities**

Issues: How far can Deep Learning go? Opportunities of VR. VR as a tool for the Regulators.

Above speakers plus the following Discussants:

[John Eggert](#) Director of Automotive Velodyne LiDAR Inc.

[Denis Gigras](#), Prof., Electrical and Computer Engineering Université de Sherbrooke

[Tom Funkhouser](#), Professor, Princeton University

[Warren Powell](#), Professor, Princeton University

[Alain Kornhauser](#), Professor, Princeton University

[Larry Reich](#), Founder, DigitalAge1

11:15am **Open Discussion of Challenges**

Issues: Limitations of Deep Learning

Above Speakers & Discussants

Noon -> 12:30pm **Preparation of Key Findings, Needs & Actionable Next Steps**

12:30 -> 1:30pm **Lunch Where is New Jersey Fitting In:** Raymond Martinez, Chief Administrator, NJ Motor Vehicles Division *Carl Fields Center*

1:30 pm – 2:30 **Presentation of Findings & Next Steps by each Workshop:** *Carl Fields Center*

1:30 Workshop 1 Findings Discussion & Next Steps Russ Mitchell Technology Editor, LA Times

1:50 Workshop 2 Findings Discussion & Next Steps John Cichowski, The Road Warrior columnist for The Record and NorthJersey.com

2:10 Workshop 2 Findings Discussion & Next Steps Fred Fishkin Editor Techstination

2:40pm -> 4:30 **Other Issues:** *Carl Fields Center*

Modeling Urban Mobility Districts: Stan Young, \ & Venu Garikapati, NREL

- Introduction to the concept of Automated Mobility District (AMD) – Stan Young (10 minutes)
- Requirements for AMD modeling – a behavioral perspective – Venu Garikapati (10 minutes)
- What we have learned from ride-sharing potential of A-Taxi’s, & can AMDs be used to spatially aggregate demand – Alain Kornhauser (10-15 minutes)
- What the history of PRT/ATN research brings to the Fleet AV analysis - Ingmar Andraasson (10-15 minutes)
- Extending the Manhattan – Kansas PRT impact study for energy and emissions – Yuche (10 minutes)
- Eliciting the impact of the Houston University District AMD, ALPs and other tools – Sam Lott (10-15 minutes)
- Round Table Discussion Involving:
 - Sam Lott, Kaan Ozbay, Alain Kornhauser, Warren Powell, Ingmar Andraasson, Alex Belenky, Joah Sapphire, Scott LeVine, Jerome Lutin, Camile Kamga, Reuben Steiger, others...

**Save the Date for
The 2nd Annual Princeton SmartDrivingCar Summit
May 16 & 17, 2018**