Monday, November 8

2010 ADVANCED ENERGY CONFERENCE AGENDA

7:45am		WELCOME BY DEAN YACOV SHAMASH	Special Breakfast – MODERATOR: Kenneth Adams (BCNYS)	The Business of CleanTech Bruce Bailey (AWS True Power), Patricia Glaza	– Panel Discussion (Clean Technology and Sustainable Industries),
8:00am - 9:15am SESSION I 9:30am - 10:45am	<section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header>	<section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header>	<section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header>	EXAMPLE A CANALAR SALE AND A CANAL AND A CANAL	<section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header>
11:30am	Welcome – Introductions	5 — Keynotes Bob Catell (Chair of Advanc Governer David Pati	ed Energy Center, NYSmart Grid Consortium) terson of New York, Bob Gilligan (GE Energy),	Dr. Samuel Stanley (President of Stony Brook Dr. John Marburger (former Science Advisor t	University), Chancellor Nancy Zimpher (SUNY) o the President), Special Energy Keynote
SESSION II 2:30pm - 3:45pm	Energy Policy II CHAIRPERSON – Paul DeCotis, LIPA Charles Fox, ZeroPoint Dr. Thomas Perry , NREL Dr. James Winebrake, RIT Dr. Susan Tierney, The Analysis Group	Cleantech Funding Lifecycle CHAIRPERSON – Jim Rossman, Lazard Freres Craig Cornelius, Hudson Clean Energy William Lese, Braemar Energy Ventures Mark Florian, First Reserve Corporation	<section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header>	Advanced Lighting Research Lighting Research Dr. Satyen Mukherjee Philips Research Advanced Lighting for Outdoor Applications Dr. Nadarajah Narendran, Rensselaer Polytechnic Institute Evaluating LED Lighting with Application Metrics Ian Hendler, Leviton Commercial Lighting Control Technologies Brian Chemel, Digital Lumens How Intelligence Drives Radical Efficiency in Lighting	Intelligent and Advanced Transportation I CHAIRPERSON – Michael Dixon, Eaton EV Charging Infrastructure: Trends and Solutions Dr. Laura Wynter, IBM Research Smarter Transportation Analytics Dr. Yuko Nakanishi, Intelligent Transportatio Intelligent Transportation in New York State Alain Steven, Viridity Energy Impact of Energy Markets on Transit Systems
зо мілите вкеак SESSION III 4:15pm - 5:30pm	<section-header><text><text><text><text></text></text></text></text></section-header>	Power Electronics for the Smart Grid CHAIRPERSON – Dusty Becker, Emerson Energy Systems Power Electronics and the Smart Grid Dr. Leo Casey, SatCon Advanced Power Electronics in Inverter Applications Dr. Douglas Hopkins, University At Buffalo Solid-State Protection: Dual-Use for Microgrids Dr. Deepak Divan, Georgia Tech/IPIC Dynamic Control of Grid Assets	Smart Networks III Cybersecurity McHAIRPERSON – Scott Pugh, U.S. Department of Homeland Security Dr. Robert Johnson, Stony Brook University Dr. Jeffrey Katz, IBM Energy & Utility Ernie Hayden, Verizon	Energy Efficiency CHAIRPERSON – David Brender, Cooper Development Association Distribution Transformer Energy Efficiency Regulations Kevin Carriere, Powerton Global Improving Thermal Transfer Through Nanomagnetics – Permanently! Mike Bakalyar, Gardner Denver Compressed Air Systems - Best Practice Efficiency Evens Jourdain, NYPA Real-Time Diagnostics and Monitoring	Intelligent and Advanced Transportation II CHAIRPERSON – Dr. Robert Paaswell, City College of New York Tim Roughan, National Grid Proposed Northeast Low Carbon Fuel Standard Joseph Ambrosio, ElectroMotive Designs Medium and Heavy Duty EV/HEV Deployment Todd Jackson, General Electric Advanced Vehicle Charging Station Collette Ericsson, MTA NYC Transit The Long & Winding Road to Zero
5:30pm - 7:30pm		Receptio	on – Exhibits	– Poster Session	

, Stephen Filler (Prism Solar Technologies Inc.)

TRACK F NASSAU SUITE A	
Energy Storage Options for Transportation Applications CHAIRPERSON – Steve Medwin, The Raymond Corporation Managing Energy Storage Options in Forklift Trucks	tov
Dr. Mark Mathias, General Motors Electrification Technology and the Future of the Automobile	Ho No
Tom Apalenek, BAE Systems Energy Storage for Transportation and More	Fun
Tim Richter, General Electric Electrification Challenges and Energy Storage Solutions	Ur H L
Grid Storage Ontions	
Grid Storage Options Benefits & Analysis	
Benefits & Analysis CHAIRPERSON – Aubrey Braz, Con Edison Smart Grid and Energy Storage Integration	l c
Benefits & Analysis CHAIRPERSON – Aubrey Braz, Con Edison	C Low
Benefits & Analysis CHAIRPERSON – Aubrey Braz, Con Edison Smart Grid and Energy Storage Integration Mark Henley, Boeing Grid-Scale Energy Storage Technology Opportunities Richard Fioravanti, KEMA Impacts of Current Electricity	C Low
Benefits & Analysis CHAIRPERSON – Aubrey Braz, Con Edison Smart Grid and Energy Storage Integration Mark Henley, Boeing Grid-Scale Energy Storage Technology Opportunities Richard Fioravanti, KEMA Impacts of Current Electricity Storage Implementations Dr. James Powell, Magley Storage	Low
Benefits & Analysis CHAIRPERSON – Aubrey Braz, Con Edison Smart Grid and Energy Storage Integration Mark Henley, Boeing Grid-Scale Energy Storage Technology Opportunities Richard Fioravanti, KEMA Impacts of Current Electricity Storage Implementations Dr. James Powell, Maglev Storage Maglev Energy Storage and the Grid	Low
Benefits & Analysis CHAIRPERSON – Aubrey Braz, Con Edison Smart Grid and Energy Storage Integration Mark Henley, Boeing Grid-Scale Energy Storage Technology Opportunities Richard Fioravanti, KEMA Impacts of Current Electricity Storage Implementations Dr. James Powell, Maglev Storage Maglev Energy Storage and the Grid Energy Storage and the Grid Energy Storage & Generation CHAIRPERSON – Com. Robert Curry, New York Public Service Commission	Low
Benefits & Analysis CHAIRPERSON – Aubrey Braz, Con Edison Smart Grid and Energy Storage Integration Mark Henley, Boeing Grid-Scale Energy Storage Technology Opportunities Richard Fioravanti, KEMA Impacts of Current Electricity Storage Implementations Dr. James Powell, Maglev Storage Maglev Energy Storage and the Grid	Low

Dr. Frank Zeman (NYIT) PHEVs as Electron Storage Devices

Dr. Robert Miller, Paper Battery Company Print Formed Energy Storage Sheets

TRACK G NASSAU SUITE B

Innovative Pathways ward Low Carbon Society: Policy and Technologies

CHAIRPERSON – Dr. Nay Htun, Stony Brook University

. Ketil Solvik-Olsen, Norway Parliament way's Policy Towards Low Carbon Paradigm

Frank Dalene, Telemark tional Net Zero, Carbon Neutral Technologies

Peter Gilbert, CA Technologies ocking Sustainability - Why IT Holds the Key

evin Neumaier, Ecology & Environment ower Carbon; Lower Cost; Better Existence

Financing the Transition to Low Carbon Society

HAIRPERSON – Dr. Yannick Glenmarec UNDP / GEF Engineering Investibility

Olav Kjorven, United Nations arbon Climate Resilient Development Strategy

Mark Fulton, Deutsche Bank GET FiT in Developing Countries

D.O.E. Sponsored Carbon Capture, Sequestration & Storage

.

CHAIRPERSON – Dr. Neeraj Gupta, Battelle Memorial Institute Field Testing for CO2 Geologic Storage

Brian Slater, New York State Museum w York State Carbon Sequestration Potential

Dr. John Marin, NYSERDA Carbon Sequestration in New York Dr. Timothy Carone, Northrop Grumman Remote Sensing and Carbon Sequestration

Tuesday, November 9

Dr. George Stefopoulos, NYPA PMU Data Analysis and Smart Grid Application

2010 ADVANCED ENERGY CONFERENCE AGENDA

<i>j</i> ,					
7:45am	WELCOME BY DEA	N YACOV SHAMASH Breakfast	- Keynotes Edward Reinfurt (NYSTAR),	Kevin Law (LIA), Thomas Congdon (Deputy Se	ecretary of Energy for NYS), Scott Pugh (Depa
SESSION IV 9:00am - 10:15am	TRACK A BEEKMAN PARLOR DIMPOSITION OF THE ANDROADS AND AND AND AND AND AND AND AND AND AND	<section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header>	CRACK CSUTTON PARLOR CENTERSmart NetworksJaccober Der George Arnold, NISTJohn McDonald, GE Digital EnergyRobert Burke, ISO-NEGridwise Architecture CouncilDr. Peter Tippett, Verizon	TRACK D SUTTON PARLOR SOUTH Utility Scale Geothermal Charperson - Dr. Jefferson Tester, Cornell University Geothermal Co-generation Opportunities in New York Lucien Bronicki, Ormat Technologies Implementing New Power Plant Technologies Dr. John Martin, NYSERDA New York State Geothermal Overview	ERGENT PARLOR EAGENT PARLOR Green Building Technologs System of Systems CHAIRPERSON – Dr. Osman Ahmed, Sieme Green building integration-Lesson from Green Huil Derry Skaggs, UL DQS Energy and Quality Management Working Toget Alessandro Meynardi, Verizon The Network Effect Dr. Franklin Schuling, Philips Research Lighting Centric Holistic Green Buildings System Solutions
30 MINUTE BREAK SESSION V 10:45am - 12:00 noon	Energy Sector Finance CHAIRPERSON – Dennis Mullen, Empire State Development Corporation Larry Siegel, Tobay Capital Ross Ain, Caithness Mitchell Dong, Mohave Sun Power Constantine Kontokosta, New York University	Solar II Thermal Solar CHAIRPERSON – Jacques Roeth, NYSERDA Solar Thermal – Promoting Adoption Steven Levine, Infinia Focus Your Energy: The Infinia PowerDIsh™ Off PerIman, BrightPower Solar Thermal Nuances in Multifamily Buildings Adam Farrell, SunMaxx Solar Systems Optimization and Commercial Applications of Solar Thermal	Smart Infrastructure I CHAIRPERSON – Dr. Madhav Manjrekar, Siemens Biectronic Power Interface Jamshid Sharif-Askary, GE Energy Helping Utilities Anticipate Asset Potential - Molistic Approach Diane Blankenhorn, National Grid Electric Business Challenges Dr. Denis Faubert, HydroQuebec Smart Grid - A R&D Perspective from Quebec	Geothermal Technologies CHAIRPERSON – Jay Nathwani, D.O.E. Geothermal Technologies U.S. DOE Portfolio of Geothermal Technologies Louis Capuano, ThermaSource Geothermal Drilling 101: How to Drill a Geothermal Well Shawn Genung, GeoEnergy Enterprise The GeoColumn - Geothermal Made Easy	Green Building Technolog Materials and Process CHAIRPERSON – Dr. Ed Bogucz, Syracused NY's Energy Regional Innovation Cluster Dr. Alexander Orlov, Stony Brook Univers New Materials for Environmental and Sustainable Energy Applications Doug Gatlin, U.S. Green Building Count Promoting leadership in building performance Jerry Polly, Flad Architects Energy Research Facilities - A Whole New Gard
25 MINUTE BREAK			• • • • • • • • • • •	• • • • • • • • • • • •	
12:25pm	Lunch	- Keynotes Bob Catell (Chair of Advance	ed Energy Center, NYSmart Grid Consortium),	Richard Kessel (NYPA), Frank Murray (NYSER	DA), Dr. George Arnold (NIST, National Directo
25 MINUTE BREAK SESSION VI 2:15pm - 3:30pm	Policies, the Smart Grid and Financing Renewables CHAIRPERSON – Allan Page, Hudson Renewable Energy Institute Charles Freni, Central Hudson Gas & Electric Scott Medla, TAG Energy Raymond Wuslich, Winston & Strawn Richard Dewey, NYISO	Solar III PV Solar CHAIRPERSON – Dr. Jong-Gyu Lee, Woongjin Energy Polysilicon for Solar Cells Brian Grenko, Yingli Solar Better Longer Smarter Stronger Solar Power James Huff, abakus solar AG State PV Feed-in Tariff Creation David Hebert, Spire Solar Systems PV Solar from Process to Deployment	D.O.E. Sponsored Smart Grid 2.0: Challenges & Opportunities CHAIRPERSON – Dr. Jim Misewich, Brookhaven National Lab Dr. Mani Vadari, Battelle Energy Technology Active Demand Management Carl Imhoff, Pacific Northwest National Laboratory Capturing New Smart Grid Value Streams Bob Hawsey, National Renewable Energy Laboratory Integrating Renewables and the Smart Grid Tom King, Oak Ridge National Laboratory How Do We Become Energy Independent?	Green Datacenters I CHAIRPERSON – Una Song, EPA - Energy Star EPA ENERGY STAR Impacts on Data Center Efficiency Dr. Roger Schmidt, IBM Energy Efficient Data Center Designs Dr. Michael Patterson, Intel Innovative Data Center Efficiency Techniques Dr. Rami Rihani, Accenture Enablers for a Green Data Center	Offshore Wind Power CHAIRPERSON – Sharon Laudisi, NYPA Dr. Caleb Gordon, Pandion Systems Anthony Camarota, Epox-Z Dan Zaweski, LIPA Dr. Mohammed Safiuddin, University At Buffalo
15 MINUTE BREAK SESSION VII 3:45pm - 5:00pm	Sensors for the Smart Grid CHAIRPERSON – Stephen Whitley, NYISO True Grid Mark Adamiak, GE Multilin Smart Grid Architecture Development Dr. Michael Gouzman, Sensor CAT Stony Brook University Sensors for Smart AC+DC Grids	Solar IV Materials and Technologies CHAIRPERSON – Dr. Miriam Rafailovich, Stony Brook University Engineering Nanocomposite Heterodyne Junction Photovoltaic Cells Dr. James Glimm, Stony Brook University A Supercomputing Study of Photo Voltaic Quantum Dots Dr. Glap B. Kowach, City Collage of NV	Smart Infrastructure II CHAIRPERSON – Florence Hudson, IBM Smarter Infrastructure - Building a Smarter Planet Mike Wojcik, Verizon Leveraging Public Wireless Networks for Smart Grid Deployments Dr. Farshad Khorrami, NYU-POLY	Green Datacenters II CHAIRPERSON – Philip Meyers, Morgan Stanley Advanced Datacenters Dhesikan Ananchaperaul, CA Technologies Greening an IT Cloud Edward Koplin, AFCO Systems, Xnth "Chips for Bricks" – Sustainable Data Centers	Onshore Wind Power CHAIRPERSON – Kara Clark, GE Energy Integrating High Penetrations of Wind and Solar En Michael Tyson, Suzlon Wind Energy Wind Turbine Monitoring and Control Dr. Luciano Castillo, Rensselaer Polytechnic Institute The Importance of Turbulence in Wind Energy

High-Resolution Metering for Gas Meters

Thermoelectric Materials for Large Thermal Gradients

Nilliam Bradshaw, Dayton T. Brown Testing of Advanced Energy Systems

The Green Data Center

rtment of Homeland Security)

TRACK F NASSAU SUITE A

Energy Storage -Chemistries, Materials & Applications I

CHAIRPERSON – Andrew Naukam, Ultralife Corporation Multiple Energy Source Energy Storage

Robert Misback, Altairnano Applications for Advanced Energy Storage-New Technologies

Martin Klein, CUNY Energy Institute Nickel-Zinc Flow Battery

Matt Fronk, RIT/NY-BEST Battery Cell Durability within a Pack

Gary Blake, Delphi Solid Oxide Fuel Cell Development

D.O.E. Sponosored Energy Frontier Research Centers

CHAIRPERSON – Dr. Jim Misewich, Brookhaven National Lab

Dr. Peter Johnson, Emergent Superconductivity Center for Emergent Superconductivity

> Dr. Thomas Miebach, GE Research Virtual Hydrogen Storage for Fuel Cells

Dr. Glenn Amatucci, Rutgers University Approaching New Horizons In Lithium Batteries

Dr. James Yardley, Columbia University New Horizons in Organic Photovoltaic Cells

or of Smart Grid Interoperability)

Energy Storage -Chemistries, Materials & Applications II

.

CHAIRPERSON – Dr. John Elter, SUNY Albany Metal-Air Batteries: Opportunities and Challenges

Dr. Brian Landi, RIT Carbon Nanotubes for Lithium Ion Batteries

Dr. Karim Zaghib, HydroQuebec Safe Li-ion For Green Transportation

Thomas Mazz, Aeroflex Laboratories Autonomous Battery Balancing-Safe, Reliable and Scalable

Energy Storage Options-Mechanical and Phase Change Storage

CHAIRPERSON – Greg Tropsa, Ice Energy stributed Storage: Peak Reduction and System Efficien

Iom Welsh, National Grid Advances in Energy Storage (from a Utility Perspective

Chet Lyons, Beacon Power 20 Megawatt Flywheel Energy Storage Plant

Dr. Li Kou, NYPA Investigation of Compressed Air Energy Storage

TRACK G NASSAU SUITE B BioEnergy Options & Technology

Chairperson – Jeffrey Peterson, NYSERDA The Question of Sustainability

> SPECIAL KEYNOTE Robert Gardner, Exxon Mobil

Carlos Pereira, U.S. Army Renewable Power and Energy Systems for Defense Needs

Dr. Kevin Hicks, USDA-ARS Winter Barley Ethanol and Other New Advanced Biofuels

BioMass Processing

CHAIRPERSON – Donald Chahbazpour, National Grid Renewable Gas

Dr. Hazem Tawfik, SUNY Farmingdale Combined Heat and Power (CHP) using Hydrogen from Biomass

Dr. Thomas Butcher, Brookhaven National Labs Biofuels from Regional Waste Sources

> Dr. Douglas Goodale, SUNY Cobleskill/U.S. Army Gasification Feedstock Hydrokinetics

CHAIRPERSON – Dr. Devinder Mahajan, Brookhaven National Lab Atom Economical Biofuel Production from Biomass

Randal Goodfellow, Envergent Pyrolysis Oil to Stationary & Transportation Fuels

Dr. Benjamin Hsaio, Stony Brook University Breakthrough Energy-Saving Nanofibrous Membrane Technology

Jonathan Rhone, Nexterra Systems Corp. Advanced Biomass Gasification For Heat and Power Applications

BioEnergy Science & Technology

CHAIRPERSON – James Wegrzyn, Brookhaven National Lab

Marianne Mintz, Argonne National Labs Renewable Natural Gas as a Vehicle Fuel

Dr. Gail Richardson, Energy Vision Optimal Technology "Fit" - Biomethane for Trucks

Kurt Sorschak, Xebec Corportaion Renewable Gas in Transportation