



Second International Conference on Countermeasures to Urban Heat Islands

Presentations

Sunday, September 20, 2009

5:30 - Welcoming Reception and Outline of Conference Akbari, H.
7:30 pm

Monday, September 21, 2009

8:30 am Breakfast

8:30 - Pacific Gas & Electric (PG&E) Utility Activities Turnbull, P.
8:45 am

Measurements

9:00 - Study on the Characteristics of Solar Radiation in the Ashie, Y.
9:20 am Geometrically Complex Urban Spaces by Using a Spectroradiometer

9:20 - Urban Heat Island and Human Heat-Stress Values During the Bornstein, R.
9:40 am July 2006 Portland, Oregon Heat Wave

9:40 - Continuous Moving Measurement Method for Thermal Nakao, M.
10:00 Environmental Distributions in Streets
am

10:00 - Urban and Rural Temperature Trends in Proximity to Large U. Stone, B.
10:20 am S. Cities: 1951 - 2000

10:20 - Questions
10:30 am

10:30 - Break
10:40 am

10:40 - Evaluation Method of Heat Island Intensity for Coastal Urban Miyazaki, H.
11:00 am Area

11:00 - Climate Impacts of LCLU Changes on a Tropical Coastal Region Gonzalez, J.E.
11:20 am Under a Changing Climate

11:20 - Analytical Solution of Cold-air-drainage Flow Within and Above Li, Y., Luo, Z.
11:40 am Forest Canopy

11:40 - Questions
11:50 pm

11:50 Lunch
am

11:50 - Bay Area Air Quality Management District (BAAQMD) Activities Burch, D.
12:05

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pm

Pavements

| | | |
|---------|--|---------------|
| 1:00 - | A Study on the Effectiveness of Heat Mitigating Pavement | Ping, T. |
| 1:20 pm | Coatings and Development of a Prediction Model for Air Temperatures in Singapore | |
| 1:20 - | Measurement of Optical Properties and Thermal Performance | Synnefa, A. |
| 1:40 pm | of Coloured Thin Layer Asphalt Samples and Evaluation of Their Impact on The Urban Environment | |
| 1:40 - | Hot Weather Comparative Heat Balances in Pervious Concrete | Haselbach, L. |
| 2:00 pm | and Impervious Concrete Pavement Systems | |
| 2:00 - | Evaporation Performance Analysis for Water Retentive Material | Kinoshita, S. |
| 2:20 pm | Based on Outdoor Heat Budget and Transport Properties | |
| 2:20 - | Reduction of Urban Heat Island Effect Through Harvest of Heat | Mallick, R.B. |
| 2:30 pm | Energy from Asphalt Pavements | |
| 2:30 - | Questions | |
| 2:40 pm | | |
| 2:40 - | Break | |
| 2:50 pm | | |

Reflective Materials

| | | |
|---------|---|---------------|
| 2:50 - | Reduction of Reflected Heat of the Sun by Retroreflective | Sakai, H. |
| 3:10 pm | Materials | |
| 3:10 - | Method for Measuring Solar Reflectance of Retroreflective | Iyota, H. |
| 3:30 pm | Materials Using Emitting-receiving Optical Fiber | |
| 3:30 - | Thermochromic Energy Efficient Coatings for Buildings and | Karlessi, T. |
| 3:50 pm | Urban Structures | |
| 3:50 - | Evaluation of Solar Reflectance of Cool Materials by On-site | Kinoshita, S. |
| 4:10 pm | Measurement and Its Aged Deterioration | |
| 4:10 - | Questions | |
| 4:20 pm | | |
| 4:20 - | A Novel Technique for the Production of Cool Colored Roofing | Levinson, R. |
| 4:40 pm | Materials | |
| 4:40 - | CO ₂ Emissions Reduction by Solar Reflective Coating for | Ihara, T. |
| 5:00 pm | Automobiles | |
| 5:00 - | Questions | |
| 5:10 pm | | |
| 5:10 pm | Adjourn | |
| 6:00 pm | Banquet | |

Letter from Professor Mizuno on Osaka Heat Island Measures
Technology Consortium (HITEC) activities

Professor
Masakazu
Moriyama

California Energy Commission (CEC) Activities

Commissioner
Julia Levin

California Legislature Activities

CA Assembly
Member Nancy
Skinner

Tuesday, September 22, 2009

| | | |
|---------|--|---------|
| 8:30 am | Breakfast | |
| 8:30 - | Cool Roof Rating Council (CRRC) Activities | Hao, S. |

8:45 am

Design of Buildings

9:00 - Pedestrian Ventilation System: A Novel Approach to Mitigate Urban Heat Islands Mirzaei, P.A.
9:20 am

9:20 - An Experimental Study of Mitigating the Urban Heat Island Effect by Novel Applications of Bamboo as a Constructional Material Kandya, A.
9:40 am

9:40 - Break
10:00 am

10:00 - Effect of Evaporative Cooling Techniques by Spraying Mist Water on Energy Saving in Apartment House [Video] Narumi, D.
10:20 am

10:20 - Questions
10:30 am

10:30 - Break
10:40 am

Vegetation

10:40 - Arbo-Structure: Ecomasterplanning the Road to Cool, Healthy Cities and Urban Islands McBride, D.
11:00 am

11:00 - Development of a Green Roof Environmental Monitoring and Meteorological Network in New York City Gaffin, S.R.
11:20 am

11:20 - SMUD Shade Tree and Cool Roof Programs: Case Study in Mitigating the Urban Heat Island Effects Sarkovich, M.
11:40 am

11:40 - Questions
11:50 pm

11:50 Lunch
am

11:50 - Environmental Protection Agency (EPA) Activities Patel, N. / K. Diehl
12:05 pm

1:00 - Field Measurement on Energy Budget of Isolated Plant Unit Yoshida, A.
1:20 pm

1:20 - Increasing Green Infrastructure in Compact Developments: Strategies for Providing Ecologically Beneficial Greenery in Modern Urban Built Environments Staley, D.C.
1:40 pm

1:40 - Urban Vegetation Effects on the Spatial Variability of Temperature in the City Center Nabeshima, M.
2:00 pm

2:00 - Questions
2:10 pm

Modeling of Air

2:10 - Development of Empirical Models for an Estate Level Air Temperature Prediction in Singapore Jusuf, S.
2:30 pm

2:30 - Study on a Simple Evaluation Method of Urban Heat Island Takebayashi, H.

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|--------------------------------------|--|------------------|
| 2:50 pm | Mitigation Technology Using Upper Air Data | |
| 2:50 - | Questions | |
| 3:00 pm | | |
| 3:00 - | Break | |
| 3:10 pm | | |
| 3:10 - | Analysis of Relationship Between Meteorological Conditions | Khiem, M. |
| 3:30 pm | and Ground O ₃ Levels in Summer Over the Central Kanto Area | |
| 3:30 - | Impacts of Urbanization vs. Global Warming in Southern | Lebassi, B. |
| 3:50 pm | California Coasts | |
| 3:50 - | Mesoscale and Meso-urban Meteorological and Photochemical | Taha, H. |
| 4:10 pm | Modeling of Heat Island Mitigation in California: Results and Regulatory Aspects | |
| 4:10 - | Questions | |
| 4:20 pm | | |
| | Urban Planning | |
| 4:20 - | The Mitigation of UHI Intensity by the Improvement of Land | Moriyama, M. |
| 4:40 pm | Use Plan in the Urban Central Area: Application to Osaka City, Japan | |
| 4:40 - | Urban Climatic Mapping in Hong Kong | Ng, E. |
| 5:00 pm | | |
| 5:00 - | Questions | |
| 5:10 pm | | |
| 5:10 pm | Adjourn | |
| Wednesday, September 23, 2009 | | |
| 8:30 am | Breakfast | |
| 8:30 - | California Air Resources Board Activities | Waters, D. |
| 8:45 am | | |
| | Urban Planning | |
| 9:00 - | A New Urban Planning Approach for Heat Island Study at the | Li, K. |
| 9:20 am | Community Scale | |
| 9:20 - | Effect of Policies for Building Low-Carbon Cities and Evaluating | Yoshida, Y. |
| 9:40 am | Them in Asia: From Mitigation Around Buildings | |
| 9:40 - | National Research Project on <i>Kaze-no-michi</i> for City Planning: | Kagiya, K. |
| 10:00 am | Creation of Ventilation Paths of Cool Sea Breeze in Tokyo [Video 1 Video 2 Video 3 Video 4] | |
| 10:00 - | Questions | |
| 10:10 am | | |
| 10:10 - | Break | |
| 10:40 am | | |
| | Quality of Life and Health | |
| 10:40 - | Quality of Life in Metropolitan Athens Using Satellite and | Stathopoulou, M. |
| 11:00 am | Census Data: Comparison Between 1991 and 2001 | |
| 11:00 - | Estimating Reduced Heat-attributable Mortality for an Urban | Mills, D.M. |
| 11:20 am | Revegetation Project | |

Policies

11:20 - Promotion of Cool Roofs in the EU: The Cool Roofs Project Synnefa, A.
11:40
am

11:40 - Policies Towards Greening, Permeability and Building Ng, E.
12:00 Separation for Better City Planning in Hong Kong
pm

12:00 - Global Cooling: Policies to Cool the World and Offset Global Akbari, H.
12:20 Warming from CO₂ Using Reflective Roofs and Pavements
pm

12:20 - Questions
12:30
pm

12:30 Lunch
pm

1:30 pm Conference Closes
