Agricultural Uses of Coal Ash: Strategy, Agronomy, Environment and Health
Chaired by Uri Mingelgrin

08:30 – 09:00 Registration, light refreshments

09:00 – 09:15 Opening Remarks – Omri Lulav, NCAB, Israel
09:15 – 09:25 Workshop's Objectives – Uri Mingelgrin (Emeritus), Volcani Center, Israel
09:25 – 09:30 Greetings – Ori Levi, South Judea Growers

Chairperson: Yoram Avnimelech (Emeritus), Technion, Israel
09:30 – 09:55 Israeli Coal Ash Characterization – Ariel Metzger, Israel Electric Corporation (IEC), Israel [presentation]
09:55 – 10:20 Market Opportunities for Coal Ash within Australian Agriculture – Jane Aiken, Ash Development Association of Australia (ADAA), Australia [presentation]

10:20 – 10:45 Use of Fly Ash in Agriculture: Indian Scenario – Vimal Kumar, C-Farm, New Delhi, India [presentation]
10:45 – 11:10 Utilization of Alkaline Coal Ash in the Treatment of Municipal Sludge - Producing Agricultural Soil Amender – Robert S. Reimers, Tulane University, Louisiana, USA [presentation]

11:10 – 11:30 Break

Chairperson: Yossi Inbar, former Director General Ministry of Environmental Protection, Israel
12:20 – 12:45 The Use of Bottom Ash Coal-Cinder as a Major Component in Growing Media – Yona Chen (Emeritus), Hebrew University Jerusalem, Israel [presentation]
12:45 – 13:10 Use of Coal Ash to Stabilize Sandy Soil Surfaces by Enhancing Development of Biogenic Crusts – Eli Zaady, Gilat Center, Israel [presentation]

13:10 – 14:10 Lunch

Chairperson: David S. Kosson, Vanderbilt University, Tennessee, USA
14:10 – 14:35 Benefits and Risks of the Use of Fly Ash in Agricultural Applications – Pinchas Fine, Volcani Center, Israel [presentation]
14:35 – 15:00 Risk Assessment of Agricultural Applications of Coal Ash – Rami Keren (Emeritus), Volcani Center, Israel [presentation]
15:00 – 15:25 Radiation Exposure from Radionuclides of Natural Origin in Agricultural Uses of Coal Ash – Gustavo Haquin, Soreq-NRC, Israel [presentation]
15:45 – 16:05 Panel's comments: Questions to be considered – Uri Mingelgrin

Users: Avraham Zilberman, Agriculture Ministry; Arie Bosak, South Judea Growers
Regulators: Yeshayahu Baror, Environmental Protection Ministry; Shay Reicher, Health Ministry

16:05 – 16:55 Discussion
16:55 – 17:00 Summary of conclusions – Uri Mingelgrin
WACAU-2014, Israel
International Workshop on Agricultural Coal Ash Uses
27 – 29 May 2014

Shafdan, Revadim
May 28th 2014

N-Viro, Professional Tour: Producing Facility & Field Observations
Chaired by Pinchas Fine

08:30 – 08:45 Registration, light refreshments, Igudan Visitor Center, Shafdan

08:45 – 08:50 Opening Remarks – Pinchas Fine, Volcani Center
08:50 – 09:00 Shafdan Plant – Yuval Sela, Igudan
09:00 – 09:10 Dan-Viro Plant: Process and Product – Meir Carmel, Dan Viro [presentation]
09:10 – 09:30 Driven Tour to Shafdan Plant – Yuval Sela
09:30 – 10:15 Tour to Dan-Viro Plant – Lior Abukasis, Dan Viro

10:15 – 11:00 Ride to Revadim Field Experiments

11:00 – 12:00 Revadim Field Experiments – Guides: Pinchas Fine, Volcani Center; Arie Bosak. South Judea Growers

12:00 – 12:30 Ride to South Judea Growers' Office; light refreshments

12:30 – 12:50 N-Viro Field Experiments and Observations – Pinchas Fine, Volcani Center
12:50 – 13:10 Use of N-Viro as an Additive to Soil for Agricultural Applications in Practice – Arie Bosak, South Judea Growers [presentation]

13:10 – 13:30 Ride to lunch
13:30 – 14:30 Lunch, Kibbutz Revadim
14:30 – 17:30 Tour to archeological sites, Judea Plain
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Environmental Assessment of Agricultural Coal Ash Uses
Using LEAF – Leaching Environmental Assessment Framework
Co-chaired by
David S. Kosson & Hans A. van der Sloot

08:30 – 08:45 Registration, light refreshments

08:45 – 09:00 Opening Remarks – Nadya Teutsch, GSI, Israel
09:00 – 09:30 Use of Chemical Speciation and Mass Transport Models in Leaching Assessment – Hans van der Sloot, HvdS Consultancy, The Netherlands [presentation]
09:30 – 10:00 Laboratory to Field Relationships and Recommendations for Leaching Assessment – David Kosson, Vanderbilt University, USA [presentation]

10:00 – 10:25 Break

10:25 – 10:50 Overview/Update Regarding LEAF Methodology and its Application to Beneficial Use in the US – David Kosson, Vanderbilt University, USA [presentation]
10:50 – 11:15 Data Analysis of Israeli Fly Ash Using LeachXS – Nadya Teutsch, GSI, Israel [presentation]
11:15 – 11:45 Proposed Research: Leaching and Phytoavailability of Trace Elements in Soils Amended with Coal-Combustion Fly Ash and Fly Ash Treated Biosolids – Research Team (LEAF, Task 3 – agriculture) [presentation]
11:45 – 12:45 Discussion – Scientific Advisory Committee

12:45 – 13:30 Lunch
13:30 – 20:00 Tour to Jerusalem