

Physiological and practical aspects of the yield and seed quality improvement by ecological methods

21 June 2006

Warszawa, Poland

Conference Location:

SGGW, St. Nowoursynowska 159
Warszawa, Poland

Organizing Committee:

Coordinator of Network - Prof. Dr. Mieczysław Grzesik

Secretary of Network - M.Sc. Bogumiła Badek

Research Institute of Pomology and Floriculture
Skierniewice, Poland

PROGRAMME

- 11.00 – 11.15 – Prof. M. Grzesik - Opening Talks
- 11.15 – 11.45 – Prof. Ch. Bailly: A survey of the roles of reactive oxygen species in seed physiology.
- 11.45 – 12.15 – Prof. F. Corbineau, Dr. R. Benech – Arnold, Prof. D. Côme:
Primary and secondary dormancies in cereal seeds: involvement of oxygen, energy metabolism and abscisic acid.
- 12.15 - 12.45 – Prof. Ch. Bailly: Identification of mechanisms involved in dormancy alleviation during dry storage.
- 12.45 - 13.15 – M.Sc. E. Łukaszewska, M.Sc. M. Bartunek, Prof. E. Śliwińska:
Functional and molecular basis of endoreplication in different organs of beet (*Beta Vulgaris* L.) seedlings.
– M.Sc. J. Sadowski, Prof. E. Śliwińska: Germination and cell cycl activity changes during development of cucumber (*Cucumis Sativus.*, L.) seeds.
- 13.15 – 14.30 – Lunch
- 14.30 – 14.45 – M.Sc. J. Goszczyńska, Prof. R. J. Górecki:
- 14.45– 15.00 – M.Sc. S. Sadowska, Prof. S. Weidner: Transcriptional response to abiotic stress in *Arabidopsis thaliana* germinating seeds, as a model for stress response investigation in Soybean (*Glycine max.*, L.).
- 15.0 - 15.15 – M.Sc. K. Oracz, Prof. Ch. Bailly, Dr. R. Bogatek , Prof. F. Corbineau:
Hydrogen cyanide in the regulation of germination of sunflower embryos.
- 15.15 - 15.30 – Dr. Z. Romanowska-Duda, Prof. M. Grzesik: Activity of ecological substances to Lemnaceae water macrophytes.
- 15.30 - 15.45 – Prof. M. Grzesik, Dr. Z. Romanowska-Duda: The use of blue green

algae in ecological plant production.

15.45 - 16.00 – Dr. R. Janas, Prof. M. Grzesik: Proecological methods of the horticulture seed and plant health status improvement.

16.00 - 16.15 – Dr. K. Górnik, Prof. M. Grzesik: The effect of suboptimal temperatures treatments on seedling emergence and development of sunflower.

16.15 – 16.30 - M.Sc. B. Bądek, Prof. M. Grzesik: Effects of moisture content and time of incubation during conditioning on ageing of China aster (*Callistephus chinensis*) seeds.