

FINAL PROGRAMME



28th ISTA Congress

XV Congresso Brasileiro de Sementes



May 5 - 11, 2007
Iguassu Falls, Brazil



SATURDAY, MAY 5, 2007

TECHNICAL COMMITTEE MEETINGS (Day 1)

	Meeting Room	
07:30 - 21:00	<i>Registration at Rafain Palace Hotel</i>	
08:00 - 09:00	Bulking & Sampling Committee Meeting	Iguaçu I
09:00 - 10:00	Flower Seed Committee Meeting	Iguaçu II
10:00 - 10:30	Coffee Break	
10:30 - 11:30	Forest Tree & Shrub Seed Committee Meeting	Itanhegá I
10:30 - 11:30	Advanced Technologies Committee Meeting	Itaguá I
11:30 - 12:30	Germination Committee Meeting	Iguaçu I
12:30 - 13:30	Lunch	
13:30 - 14:30	Moisture Committee Meeting	Iguaçu II
14:30 - 15:30	Nomenclature Committee Meeting	Itaguá I
15:30 - 16:00	Coffee Break	
16:00 - 17:00	Proficiency Test Committee Meeting	Iguaçu I

SUNDAY, MAY 6, 2007

TECHNICAL COMMITTEE MEETINGS (Day 2)

	Meeting Room	
07:30 - 21:00	<i>Registration at Rafain Palace Hotel</i>	
08:00 - 09:00	Purity Committee Meeting	Iguaçu I
09:00 - 10:00	Seed Health Committee Meeting	Iguaçu II
10:00 - 10:20	Coffee Break	
10:20 - 11:10	Statistics Committee Meeting	Itaguá I
11:10 - 12:10	Seed Storage Committee Meeting	Iguaçu I
12:10 - 13:10	Lunch	
13:10 - 14:10	Tetrazolium Committee Meeting	Iguaçu II
14:10 - 15:10	Seed Vigour Committee Meeting	Itaguá I
15:10 - 15:30	Coffee Break	
15:30 - 16:30	Variety Committee Meeting	Iguaçu I
16:30 - 17:30	GMO Task Force Meeting	Iguaçu II
18:30 - 20:00	Opening Ceremony	EXPOCENTER
	<ul style="list-style-type: none">▪ Opening address by the President of ISTA, Ir. Pieter Oosterveld and the Secretary General of ISTA, Dr. Michael Muschick▪ Opening address by the President ABRATES, Dr. Silmar Peske▪ Officiation of opening of the Congress by the Ministry of Agriculture of Brazil▪ Presentation of the global seed industry by the Secretary General of ISF, Dr. Bernard Le Buanec	
20:00	Welcome Cocktail	

MONDAY, MAY 7, 2007

SEED SYMPOSIUM (Day 1)

Meeting Room

- 07:00 – 21:00 *Registration at Rafain Palace Hotel*
- 08:00 – 08:20 **Welcome and Presentation of ISTA by the President of ISTA, Ir. Pieter Oosterveld**
- 08:20 – 08:30 **Opening Seed Symposium by the ISTA Seed Symposium Convenor, Dr. Alison Powell**
- 08:30 – 10:00 **SESSION 1 - DIVERSITY WITHIN & AMONG SEED LOTS & SPECIES**
Chair and lead speaker: Michael Kruse, University of Hohenheim, Stuttgart, Germany
- **A Bayesian approach for adventitious presence (AP) semiquantitative testing in conventional seed lots**
by Jean Louis Laffont, & Kirk Remund, Pioneer Génétique, Aussonne, France
 - **Physiological quality evaluation of annual ryegrass seeds from the soil seed bank**
by Ana Laura Pereira Amato, Manoel de Souza Maia, Leandro Sebastião Caetano, Silvia Bristotti Simeoni & Leandro de Conto, Universidade Federal de Pelotas, Pelotas, Brazil
 - **The impact of provenance, season and seed differences on the seed longevity of nine Australian native species**
by Jitka Kochanek, Kathryn J. Steadman, Robin J. Probert & Steve W. Adkins; University of Queensland, Brisbane, Australia
- 10:00 - 10:30 Coffee Break
- 10:30 – 11:30 **SESSION 1 continuation**
- **Oil content a factor in seed moisture testing?**
by Harry Nijënstein, Innoseeds BV, Vlijmen, The Netherlands
 - **Removal of green seeded soybean from seed lots by processing**
by Jose Franca-Neto, Francisco Krzyzanowski, Patricia Brumatti, Gilda Padua & Costa Nilton, Embrapa Soybean, Londrina, Brazil
 - **Testing moisture content of nut-enclosed tropical seeds**
by Joseph Ahenda, KEPHIS-NSQCS, Nakuru, Kenya
- 11:30 – 12:30 **POSTER SESSION 1**
- 12:30 – 13:30 Lunch
- 13:30 – 15:00 **SESSION 2 - PROBLEMS ASSOCIATED WITH THE DOMESTICATION & USE OF NON-CROP SPECIES**
Chair and lead speaker: Mirian Eira, Embrapa, Brasilia, Brazil
- **Desiccation tolerance & germination behaviour of nikau (*Rhopalostylis sapida* Wendl. et Drude) an endemic New Zealand palm**
by Craig McGill, Heather Outred, Chris Wood, Kay Kitchen & David Fountain, Institute of Natural Resources, PN433, Palmerston North, New Zealand
 - **Development of dormancy breaking treatments to enable germination testing of seeds of medicinal plants grown in Iran**
by Mohammad Khajeh-Hosseini, L. Tabrizi, G. Aziz & M. Jahan, University of Ferdowsi, Mashhad, Iran
 - **Seed longevity of *Hosta sieboldiana* & *H. albomarginata***
by Kojiri Suzuki, Tokyo University of Agriculture, Tokyo, Japan
- 15:00 – 15:30 Coffee Break

EXPOCENTER

(ALL DAY)

15:30 – 16:30 SESSION 2 continuation

- **Pattern of radiographic images of *Ginkgo biloba* (L.) seeds**
by Adriana R. Salinas, Roque Mario Craviotto, Carina del Valle Gallo, Sabina Andrea Feerrari & Miriam Raquel Arango, Faculty of Agricultural Sciences, Zavall, Argentina
- **Standardization of seed testing procedures in four medicinal plants**
by Kota Meena Kumari, Rohini, R. Ankaiah, Vilas A. Tonapi & K. Rajeswari, ANGRAU, Andhra Pradesh, India

16:30 – 18:00 SESSION 3 – DIVERSITY IN CONTAMINATING ORGANISMS

Chair and lead speaker: Gary Harman, Cornell University, Geneva NY, United States

- **Development of immunochemical & PCR Methods for qualitative detection of *Tilletia* species in organic seeds**
by Thomas Kellerer, Monika Sedlmeier, Frank Rabenstein & Berta Killermann, Bayerische Landesanstalt für Landwirtschaft, Freising, Germany
- **Inoculum thresholds for *Dreschlera* in organic barley & oat seed**
by Guro Brodal & Birgitte Henriksen, Norwegian Institute for Agricultural & Environmental Research, Ås, Norway
- **Soft electron treatment for the management of pulse beetle, *Callosobruchus maculatus* F. & its effect on seed DNA & germination of Adzuki bean, *Vigna angularis***
by Venkatarami P. Reddy, Setsuko Todoriki, Akihiro Miyanoshta, Taro Imamura & Toru Hayashi, Indian Institute of Horticultural Research, Bangalore, India

EXPOCENTER

(ALL DAY)

TUESDAY, MAY 8, 2007

SEED SYMPOSIUM (Day 2)

Meeting Room

08:00 – 08:30 Presentation about the Brazilian Seed Industry by the Executive Director of COODETEC, Dr. Ivo Marcos

08:30 – 09:30 **SESSION 3 continuation**

- **Healthy & vigorous seeds for sustainable farming**
by Steven P.C. Groot, Ruud W. van den Bulk, W. Joost van den Burg, Henk Jalink & Jan M. van der Wolf, Plant Research International, Wageningen, The Netherlands
- **Potential of *Bacillus amyloliquefaciens* for control of seed-borne pathogens on yellow cosmos & French marigold**
by Wen-Shi Wu, Y. L. Li & H. C. Wu, Dept. of Horticulture, Taipei, ROC, Taiwan
- **Effect of fungicide seed treatments on germination and vigour of maize seed during storage**
by Veloshinie V. Govender, Delphin D.S. Kandolo, Terry T.A.S. Aveling and Quenton Q. Kritzingler, University of Pretoria, Pretoria, South Africa

09:30 – 10:00 **SESSION 4 – SEED DEVELOPMENT, DORMANCY & GERMINATION: PHYSIOLOGY & METHODS (ISSS collaborative session)**

Chair and lead speaker: Roberto Benech-Arnold, University of Buenos Aires, Buenos Aires, Argentina

10:00 – 10:30 Coffee Break

10:30 – 12:30 **SESSION 4 continuation**

- **The awakening of the quiescent seed during germination as revealed by proteomics**
by Julie Catusse, Juliane Meinhard, Claudette Job, Uwe Fischer & Dominique Job, CNRS/Bayer CropScience Joint Laboratory, Lyon, France
- **Physiological quality assessment using biochemical tests involving biotinylated proteins**
by Marie-Hélène Wagner, Claudette Job, Sylvie Ducournau, Marie-Claire Gatineau & Dominique Job, GEVES-SNES, Beaucouzé Cedex, France
- **Genomic regions associated to rice seed germination & vigour**
by Gaspar Malone, Silmar T. Peske, Paulo Dejalma Zimmer, Guilherme Fiss & Patricia Vinholes, Laboratorio de Biosementes, Pelotas, Brazil
- **Dormancy breaking improvement for cereal seed germination testing** by Sylvie Ducournau, Benoit Mériaux, Günther Müller, Philippe Garreau & Joël Léchappé, GEVES-SNES, Beaucouzé Cedex, France
- **Screening for physical dormancy in Millennium Seed Bank Project collections** by Natasha S. Ali, Darren P.M. McCabe, Katie Lowe & Robin J. Probert, Seed Conservation Department, West Sussex, United Kingdom
- **Seedling emergence of tucumã (*Astrocaryum aculeatum* G. Meyer-Arecaceae) as a function of moisture content of the seeds & heat pretreatment**
by Patrícia Nazário & Sidney Alberto do Nascimento Ferreira, Instituto Nacional de Pesquisas da Amazônia, Manaus/AM, Brazil

12:30 – 13:30 Lunch

EXPOCENTER

(ALL DAY)

13:30 – 15:00 SESSION 5 – VIGOUR & INVIGORATION

Chair and lead speaker: Kent Bradford, Seed Biotechnology Center, Davis CA, United States

EXPOCENTER

(ALL DAY)

- **Controlled deterioration test predicts vigour & field emergence in pepper seed lots**
by Hulya Ilbi, Suleyman Kavak & Benian Eser, Ege University, Izmir, Turkey
- **A trait-led investigation of seed vigour using natural genetic variation in *Brassica oleracea***
by William Finch-Savage, Katharine Dent & Guy Barker, Warwick HRI, Warwick, United Kingdom
- **Length of the lag period of germination & metabolic repair explain vigour differences in seed lots of maize (*Zea mays*)**
by Stan Matthews & Mohammad Khajeh-Hosseini, University of Aberdeen, Aberdeen, United Kingdom

15:00 – 15:30 Coffee Break

15:30 – 16:30 SESSION 5 continuation

- **Conductivity testing of Brassica seed lots: does seed moisture content affect results?**
by Conrad Leeks, Bruce McKenzie & John Hampton, Lincoln University, Canterbury, New Zealand
- **Radish seed vigour & plant field performance**
by Julio Marcos-Filho & Ana Lucia Pereira Kikuti, USP/ESALQ, Piracicaba/SP, Brazil
- **Mean germination time of seed lots of pepper (*Capsicum annuum* L) predicts size & uniformity of seedlings in germination tests & transplant modules**
by Ibrahim Demir, Sýtký Ermis & Kazým Mavi, University of Ankara, Ankara, Turkey

16:30 – 17:30 POSTER SESSION 2

WEDNESDAY, MAY 9, 2007

SEED SYMPOSIUM (Day 3)

Meeting Room

08:30 – 10:00 SESSION 6 – SEED STORAGE & GENETIC CONSERVATION

Chair and lead speaker: Hugh W. Pritchard, Seed Conservation Department, Royal Botanic Gardens Kew, United Kingdom

- **The impact of maternal vegetative stress on seed longevity**
by Jitka Kochanek, Kathryn J. Steadman, Robin J. Probert & Steve W. Adkins, University of Queensland, Brisbane, Australia
- **Desiccation & low temperature sensitivity in seeds of *Garcinia gummi-gutta*, a tropical dormant recalcitrant species**
by Geeta Pandey & Arun A.N. Kumar, Institute of Wood Science & Technology, Bangalore, India
- **Desiccation-sensitive seeds & possibilities for seed storage of a tropical tree species from the Amazon**
by Yêda M.B.C. Arruda & Isolda D.K. Ferraz, Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil

EXPOCENTER

(ALL DAY)

10:00 – 10:30 Coffee Break

10:30 – 11:30 SESSION 6 continuation

- **Thermal & moisture content effects on storability & seed dormancy releasing of *Brachiaria brizantha* (Hochst. ex A. Rich.) Stapf**
by Francisco Nahum Cavalcante Filho & Roberto Usberti, Plant Protection Agency, Campinas, Brazil
- **Evaluating maize seed deterioration & longevity during storage under various relative humidity conditions at simulated tropical storage temperature**
by Isaac Oludayo Daniel, University of Agriculture, Abeokuta, Nigeria
- **Stationary drying of soybean seeds using drying air with variations in relative humidity**
by Alexandre Levien, Leopoldo Baudet & Silmar T. Peske, UFPEL, Pelotas, Brazil

11:30 – 12:00 Symposium Conclusion

12:00 – 13:00 Lunch

13:00 – 13:30 Editorial Board Meeting (Seed Science & Technology)

13:30 – 14:00 Audit Programme Session

14:00 – 15:00 Ordinary Meeting Preparation Strategy
- Document 08/2007/OM Draft ISTA Strategy

15:00 – 15:30 Coffee break

15:30 – 18:00 Rules Committee Session
(Rules Proposals 2007 discussion)

- Document 05/2007/OM Proposed Changes to the ISTA International Rules for Seed Testing
- Document 05A/2007/OM Proposed Changes to the ISTA List of Stabilized Plant Names
- Document 06/2007/OM Method Validation Reports on Proposed Changes to the ISTA International Rules for Seed Testing

19:30 OFFICIAL DINNER

THURSDAY, MAY 10, 2007

TECHNICAL COMMITTEE PRESENTATIONS

Meeting Room

07:30 – 18:00 *Registration at Rafain Palace Hotel*

08:30 – 08:45 **Opening Technical Committee Presentations**

08:45 – 09:15 **Bulking & Sampling Committee Presentation**

09:15 – 09:45 **Purity Committee Presentation**

09:45 – 10:15 **Germination Committee Presentation**

10:15 – 10:45 **Coffee Break**

10:45 – 11:15 **Tetrazolium Committee Presentation**

11:15 – 11:45 **Vigour Committee Presentation**

11:45 – 12:15 **Moisture Committee Presentation**

12:15 – 12:30 **Editorial Board Presentation**

12:30 – 13:30 **Lunch**

13:30 – 14:00 **Statistics Committee Presentation**

14:00 – 14:30 **Seed Health Committee Presentation**

14:30 – 15:00 **Proficiency Test Committee Presentation**

15:00 – 15:30 **Variety Committee Presentation**

15:30 – 16:00 **Coffee Break**

16:00 – 17:00 **GMO Task Force Presentation**

17:00 – 17:30 **Flower Seed Committee Presentation**

17:30 – 18:00 **Forest Tree & Shrub Seed Committee Presentation**

18:00 – 18:15 **Nomenclature Committee Presentation**

18:15 – 18:45 **Seed Storage Committee Presentation**

18:45 – 19:00 **Advanced Technologies Committee Presentation**

EXPOCENTER
(ALL DAY)

FRIDAY, MAY 11, 2007

ORDINARY MEETING

Meeting Room

- 08:30 – 10:00**
- 1.** Call to order
Document 10/2007/OM Draft Rules of Order for the Ordinary Meeting
 - 2.** President's address
 - 3.** Roll call of Designated Members entitled to vote
 - 4.** Reading and acceptance of Minutes
Document 02/2007/OM Draft Minutes of the Ordinary Meeting 2006
 - 5.** Report of the Executive Committee
Document 03/2007/OM Activity Reports 2006 of all ISTA Bodies (page 4-7)
 - 6.** Report of the Secretary General
Document 03/2007/OM Activity Reports 2006 of all ISTA Bodies (page 8-11 and 20-34)
- 10:00 – 10:30 Coffee Break
- 10:30 – 12:30**
- 7.** Election of Officers and Members-at-large of the Executive Committee
 - 8.** Fixation of Annual Subscriptions
 - Document 04/2007/OM Proposal for the Membership Fees 2008
- 12:30 – 13:30 Lunch
- 13:30 – 15:00**
- 9.** Constitution changes
 - Document 07/2007/OM Proposed Changes to the ISTA Constitution
 - 10.** Consideration and Adoption of the proposed Rules Changes 2007
 - Document 05/2007/OM Proposed Changes to the ISTA International Rules for Seed Testing
 - Document 05A/2007/OM Proposed Changes to the ISTA List of Stabilized Plant Names
 - Document 06/2007/OM Method Validation Reports on Proposed Changes to the ISTA International Rules for Seed Testing
 - 11.** Consideration and Adoption of Reports
 - Document 03/2007/OM Activity Reports 2006 of all ISTA Bodies (page 12-16, 17-20 and 35-91)
- 15:00 – 15:30 Coffee Break
- 15:30 – 18:00**
- 12.** Announcement of the place and the date of the next Ordinary Meeting
 - 13.** Any other business raised by a Member, of which notice in writing has been received by the Secretary General two month prior to the date of the of the meeting
 - 14.** Any other business raised by consent of the Executive Committee
 - Document 08/2007/OM Draft ISTA Strategy
 - Document 11/2007/OM Discussion paper on the price of the ISTA Certificates
 - Document 09/2007/OM Draft ISTA Position Paper on Quantifying and Reporting Uncertainty of Measurement in Seed Testing
 - 15.** Discharge of the Executive Committee
 - 16.** Installation of new Officers
 - 17.** President's closing address
 - 18.** Adjournment

**EXPOCENTER
(ALL DAY)**

