Wednesday, June 19, 2013

2:00 - 5:00 pm  Registration
6:00 - 9:00 pm  Wine and Cheese Reception; Poster Set-up and Display

Thursday, June 20, 2013

7:00 – 8:00 am  Buffet Breakfast; Poster Set-up and Display

Session 1  Chair: Dr. Curtis Rempel
8:00 – 8:25 am  Dr. Siddika Mithani, Agriculture and Agri-Food Canada
Opening Address
8:25 – 9:10 am  Dr. Geoffrey R. Dixon, University of Reading, United Kingdom
Clubroot – A Biological and Agricultural Challenge Worldwide
9:10 – 9:25 am  Dr. Curtis Rempel, Canola Council of Canada
Clubroot and the Importance of Canola in Canada
9:25 – 9:55 am  Dr. Stephen Strelkov, University of Alberta
Pathology and Epidemiology of Clubroot in Canada
9:55 – 10:25 am  Morning Break

Session 2  Chair: Dr. Geoff Dixon
10:25 – 10:55 am  Dr. Elke Diederichsen, Freie Universität Berlin
Clubroot in Europe
10:55 – 11:00 am  Dr. Malgorzata Jedryczka, Polish Academy of Sciences
Current Incidence of Clubroot on Oilseed Rape in East Europe
11:00 – 11:30 Dr. Ann-Charlotte Wallenhammar, Swedish University of Agricultural Sciences
Clubroot, a Permanent Threat to Swedish Oilseed Rape Production
11:30 – 12:00 pm  Dr. Yueqiu He, Yunnan Agricultural University
Research Status of Clubroot Disease of Cruciferous Crops in China
Thursday, June 20, 2013

12:00 – 1:00 pm Buffet Lunch

Session 3  Chair: Dr. Mary Ruth McDonald
1:00 – 1:20 pm Dr. Jutta Ludwig-Müller, Technische Universität Dresden
   Hormone Signaling During the Development of the Clubroot Disease in Arabidopsis thaliana Roots
1:20 – 1:40 pm Dr. Habibur Rahman, University of Alberta
   Breeding for Clubroot Resistance at the University of Alberta
1:40 – 2:00 pm Dr. Fengqun Yu, Agriculture and Agri-Food Canada
   Identification of Clubroot Resistance Genes and Development of Clubroot Resistant Canola Germplasm
2:00 – 2:20 pm Dr. Genyi Li, University of Manitoba
   Mapping Clubroot Resistance Genes in Chinese Cabbage and ECD Accessions of Brassica rapa

2:20 – 2:35 pm Afternoon Break

Session 4  Chair: Clinton Jurke
2:35 – 3:05 pm Dr. Gary Peng, Agriculture and Agri-Food Canada
   Integrated Management of Clubroot on Canola with Crop Rotation, Cultivar Resistance, and Fungicides/Biofungicides
3:05 – 3:35 pm Dr. Sheau-Fang Hwang, Alberta Agriculture & Rural Development
   Management of Clubroot on Canola in Western Canada
3:35 – 4:05 pm Dr. Bruce Gossen, Agriculture and Agri-Food Canada
   Environmental parameters that Affect Clubroot Risk on the Canadian Prairies
4:05 – 4:15 pm Dr. George Clayton, Agriculture and Agri-Food Canada
   Closing remarks

4:15 – 5:30 pm Poster Session; Coffee; Closing Remarks; Adjourn

Friday, June 21, 2013

7:00 – 8:00 am Buffet Breakfast

Session 1  Chair: Dan Orchard
8:00 – 8:30 am Jo-Ann Hall, Alberta Agriculture and Rural Development
   Opening Address
   Clubroot Video
8:30 – 10:00 am Dr. Ron Howard, Alberta Agriculture and Rural Development
   Evaluating Methods for Cleaning and Disinfesting Equipment Contaminated with Clubroot
   Paul Muyers, Solid Ground Solutions Ltd.
   Agricultural Industry Perspective
   Andrea Bullinger, Encana
   Petroleum Industry Perspective
   Shannon Leggo, ATCO Electric
   Construction Industry Perspective
   Sean Hannigan, Swift Environmental
   Custom Equipment Cleaning and Decontamination
Friday, June 21, 2013

10:00 – 10:15 am  Morning Break

Session 2  Chair: Murray Hartman
10:15 – 11:00 am  Clinton Jurke and Dan Orchard, Canola Council of Canada
  Clubroot Management
11:00 – 12:00 am  Maureen Vadnais, Alberta Agriculture and Rural Development
  Clubroot Regulation in Alberta
  Aaron van Beers, Leduc County
  Clubroot regulation in Leduc County
  Holly Derksen, Manitoba Agriculture, Food and Rural Initiatives
  Clubroot Regulation in Manitoba
  Dr. Cecilia Peluola, Saskatchewan Ministry of Agriculture
  Clubroot Regulation in Saskatchewan
  Discussion

12:00 – 12:45 pm  Buffet Lunch

Session 3  Tour Lead: Dan Orchard
12:45 pm  Assemble in Ballroom for Field Tour
1:00 – 2:00 pm  Transportation to Alberta Agriculture’s Crop Diversification Centre – North
  Research Facility
2:00 – 3:00 pm  Clubroot Nursery Tour
  Soil Amendments, Fumigation Treatments, Resistant/Susceptible
  Varieties, and Dust Traps
3:00 – 3:30 pm  Afternoon Break
3:30 – 5:00 pm  Crop Diversification Centre – North Research Facility Tour and
  Demonstrations
  Sanitation Demonstration, Greenhouse and Lab Facilities Tour
5:15 pm  Transport to Delta Edmonton South Hotel and Conference Centre

Saturday, June 22, 2013

Post-Workshop  Tour Lead: Dan Orchard
Tour
9:30 – 9:45 am  Assemble in Ballroom for Farm/Retail Tour
10:00 – 10:30 am  Transportation to local retail
10:30 – 11:30 am  Sturgeon Valley Fertilizers Tour
11:30 – 12:00 pm  Canola Farm Tour
12:00 – 12:45 pm  Lunch at the farm
12:45 – 2:30 pm  Canola Farm Tour continued
2:30 pm  Transportation to West Edmonton Mall
5:00 pm  Transport to Delta Edmonton South Hotel and Conference Centre
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1. Pathotype reaction in clubroot-resistant canola cultivars in Canada  
   A. Deora, B.C. Gossen, and M.R. McDonald

2. Screening germplasm in Brassica oleracea for breeding for resistance to clubroot (Plasmodiophora brassicae)  
   Yunhua Ding, Liting Zuo, Tingting Yang, Fan Liu, Yuancai Jian, and Lihua Geng

3. Plasmodiophora brassicae resting spore load dynamics in clubroot-resistant canola (Brassica napus) cropping systems in Alberta, Canada  
   T.W. Ernst, D. Stanton, D.C. Rennie, I. Falak, S.F. Hwang, and S.E. Strelkov

4. Potential for degree day modeling of clubroot on canola  
   T.V. Gludovacz, B.C. Gossen, and M.R. McDonald

5. Limitations of qPCR to quantify gDNA of Plasmodiophora brassicae in young seedlings  
   T.V. Gludovacz, B.D. Gossen, and M.R. McDonald

6. Cost of resistance to Plasmodiophora brassicae when inoculum pressure is high  

7. Genetics of resistance in rutabaga (Brassica napus var. napobrassica) to Canadian Plasmodiophora brassicae pathotypes  
   Muhammad J. Hasan and Habibur Rahman

8. Breeding of clubroot resistant Ogura CMS New Variety CCR11242 on Brassica campestris  
   Jiangming He, Jingfeng Hu, Xuezhong Xu, Hongli Yang, Qian Wang, Liyan Wu, and Zhimei Tian

9. Evaluating methods for cleaning and disinfecting equipment contaminated with clubroot  
   Ronald J. Howard, Dustin A. Burke, Stephen E. Strelkov, Derek C. Rennie, Carol A. Pugh, Sharon L.I. Lisowski, Michael W. Harding, and Gregory C. Daniels
10. **Study of clubroot resistance and Ogura CMS germplasm innovation on Brassica spp**
   Jingfeng Hu, Hongli Yang, Xuezhong Xu, and Jiangming He

11. **The incidence of Plasmodiophora brassicae in agricultural soils in Poland**
    Joanna Kaczmarek, Marek Korbas, Janetta Niemann, Ewa Jajor, and Malgorzata Jedryczka

12. **Clubroot in Europe – A survey of Plasmodiophora brassicae pathotypes occurring in the main European oilseed rape growing regions**
    Wolfgang Lueders, Stefan Abel, Wolfgang Friedt, Doris Kopahnke, and Frank Ordon

13. **Reaction of canola to inoculation with primary and secondary zoospores of Plasmodiophora brassicae**

14. **Search for sources of resistance to Plasmodiophora brassicae in Brassica mutants and hybrids**
    Janetta Niemann, Joanna Kaczmarek, Jan Olejniczak, Andrzej Wojciechowski, and Malgorzata Jedryczka

15. **Clubroot on winter rape (Brassica napus) in the Czech Republic**
    Veronika Říčařová, Jan Kazda, Evženie Prokinová, Lenka Grimová, Khushwant Singh Sandhu, Petr Baranyk, and Pavel Ryšánek

16. **The distribution, damage, biocontrol and physiological race identification of clubroot in Sichuan, China**
    Yulong Peng, Shan Lin, Yun Huang, Yingze Niu, Hong Xiong, Lei Ye, Qin Zhang

17. **The genome of a single-spore isolate of Plasmodiophora brassicae**
    Arne Schwelm, Johan Fogelqvist and Christina Dixelius

18. **Molecular insight into Plasmodiophora brassicae pathogenesis in Brassica napus**
    Chad D. Stewart, Yangdou D. Wei and Peta C. Bonham-Smith

19. **Assessment of Brassica rapa and Brassica napus genotypes for detecting physiologic specialization in populations of Plasmodiophora brassicae from Canada**
    Stephen E. Strelkov, Tiesen Cao, Victor P. Manolii, and Sheau-Fang Hwang

20. **Evaluation of the impact of crop rotation on clubroot severity in canola in Alberta, Canada**
    M. Tabori, T. Cao, V.P. Manolii, S.F. Hwang, and S.E. Strelkov
21. Life cycle of *Plasmodiophora brassicae* and auxin homeostasis in plant-*P. brassicae* interaction
   Jiangying Tu, Peta Bonham-Smith, and Yangdou Wei

22. Field Volunteer destruction strategies to manage clubroot disease
   Nazanin Zamani-Noor

23. Clubroot (*Plasmodiophora brassicae*) control in the Canadian canola (*Brassica napus*) crop using Vapam as a soil fumigant
   K.A. Zuzak, S.F. Hwang, G.D. Turnbull, V.P. Manolii, and S.E. Strelkov

24. Reduction of clubroot (*Plasmodiophora brassicae*) symptoms associated with using calcium cyanamide fertilizer Perlka® in field crops
   Hans-Juergen Klasse

25. Identification and mapping of clubroot resistance genes
   M. Chu, F. Yu, K.C. Falk, and G. Peng

26. In-field distribution of *Plasmodiophora brassicae* measured using quantitative real-time PCR and the influence of soil physiochemical parameters on disease development
   Ann-Charlotte Wallenhammar, Charlotta Almquist, Mats Söderström, and Anders Jonsson