



PROGRAMME

60th International Symposium on Crop Protection

May 20, 2008
Gent
Belgium

PATRONS

Faculty of Bioscience Engineering - Ghent University, Gent, Belgium
Research Foundation - Flanders, Brussels, Belgium

Akzo Nobel - Surfactants Europe, the Netherlands
BASF Crop Protection, Brussel, Belgium
Bayer Crop Science, Brussels, Belgium
Belchim Crop Protection, Londerzeel, Belgium
Biobest Biological Systems, Westerlo, Belgium
Certis Europe, Brussels, Belgium
Dow Agro Sciences, Edegem, Belgium
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Evonik Industries, Essen, Germany
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GENERAL PROGRAMME

May, 19	15.00-18.00	REGISTRATION
May, 20	08.00	REGISTRATION
	09.30-11.00	PLENARY SESSION
	11.00-13.00	ORAL SESSIONS
	13.00-14.00	LUNCH
	14.00-15.00	POSTER SESSION
	15.00-17.20	ORAL SESSIONS
	17.30	RECEPTION
	20.00	BANQUET Het Pand Ghent University Onderbergen 1, 9000 Gent

Chair	M. HÖFTE (Laboratory of Phytopathology, Department of Crop Protection, Ghent University, Gent, Belgium)
Vice-chair	R. BULCKE (Laboratory of Herbology, Department of Plant Production, Ghent University, Gent, Belgium)
	P. DE CLERCQ (Laboratory of Agrozoology, Department of Crop Protection, Ghent University, Gent, Belgium)
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	L. TIRRY (Laboratory of Agrozoology, Department of Crop Protection, Ghent University, Gent, Belgium)
Secretary	P. SPANOGHE (Laboratory of Crop Protection Chemistry, Department of Crop Protection, Ghent University, Gent, Belgium)

Room: E1.002 OEHOE

- 09:30 M. HÖFTE (Laboratory of Phytopathology, Department of Crop Protection, Ghent University, Gent, Belgium)
- Introduction by the chair
- 09:40 M.A. DE WAARD (Laboratory of Phytopathology, Wageningen University, Wageningen, the Netherlands)
- History of 60 years of fungicides
- 10:10 J. PRETTY (Centre for Environment and Society, University of Essex, Colchester, UK)
- Sustainability and Food: Challenges for the future
- 10:40 Coffee
- 17:30 Reception
- U. WYSS (Christian-Albrechts-University, Kiel, Germany)
- The tough life of males

Room: E2.009

Chair	M.L. GULLINO (University of Turin, Torino, Italy)
Vice-chair	K. AUDENAERT (University College of Ghent, Gent, Belgium)
Secretary	S. VAN BENEDEN & S. DE CARVALHO (Ghent University, Gent, Belgium)

11:00 R. ABUHAMSHA & R-U. EHLERS (Christian-Albrechts-University, Kiel, Germany)

- Seed treatment with *Serratia plymuthica* and *Pseudomonas chlororaphis* to control *Verticillium dahliae* and *Phoma lingam* in oilseed rape cultivars

11:20 S.C. FRANÇA, G. DE BACKER, K. SPIESSENS, L. DE ROOSTER, S. POLLET, D. CALLENS & M. HÖFTE (Ghent University, Gent, Belgium)

- Sustainable alternatives for managing *Verticillium* wilt of cauliflower

11:40 K. RIAZ, C. ELMERICH, D. MOREIRA, A. RAFFOUX, Y. DESSAUX & D. FAURE (Centre Nat. De la Recherche Scientifique, Gif-sur-Yvette, France)

- A metagenomic analysis of soil bacteria extends the diversity of quorum-quenching lactonases

12:00 N. BROOKER, J. RYAN LORD & A. JAYAWARDHANA (Pittsburg State University, Pittsburg, KS, USA)

- AFLP analysis of genetic diversity in charcoal rot fungal populations impacted by crop rotations

12:20 R. ABUHAMSHA & R-U. EHLERS (Christian-Albrechts-University, Kiel, Germany)

- Effect of pathogen infection on root colonization of oilseed rape by antagonistic bacteria

12:40 S. VAN BENEDEN, S. DE CARVALHO FRANCA, B. LEROY, G. DE BACKER & M. HÖFTE (Ghent University, Gent, Belgium)

- Applying lignin to soil reduces the viability of *Rhizoctonia solani sclerotia*

13:00 Lunch

14:00 Posters

14:45 Coffee

Session 1

BIOLOGICAL AND INTEGRATED CONTROL OF PLANT PATHOGENS

- 15:00 G. GILARDI, M. BAUDINO, M.L. GULLINO & A. GARIBALDI (University of Turin, Torino, Italy)
- Effect of fungicides against powdery mildew of rape
- 15:20 J-A. VERREET & M. HENZE (Christian-Albrechts-University, Kiel, Germany)
- Development of a quantitative forecasting system for *Septoria tritici* based on a long-term monitoring
- 15:40 A. SIAH, C. DEWEER, E. MORAND, P. REIGNAULT & P. HALAMA (Institut Supérieur d'Agriculture, Lille, France)
- Assesment of *Mycosphaerella graminicola* resistance to azoxystrobin
- 16:00 T. DELIOPOULOS, P.S. KETTLEWELL & M.C. HARE (Harper Adams University College, Newport, UK)
- Inorganic salts for suppressing powdery mildew in cucurbits - a worldwide survey
- 16:20 P.F.J. WOLF & J-A. VERREET (Christian-Albrechts-University, Kiel, Germany)
- Quaternary IPM (Integrated Pest Management) - concept for the control of powdery mildew in sugar beets
- 16:40 K. AUDENAERT, R. VAN BROECK, F. DEWITTE, M. HÖFTE, K. MESSENS & G. HAESAERT (University College Ghent, Gent, Belgium)
- Survey of *Fusarium* spp. and *Microdochium nivale* population on winter wheat in Flanders

Room: E2.010

Chair	M. MAES (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)
Vice-chair	P. CREEMERS (Research Center for Fruit Cultivation, Sint-Truiden, Belgium)
Secretary	E. VAN BUYTEN & K. CURVERS (Ghent University, Gent, Belgium)

11:00 A. VERCAUTEREN, I. DE DOBBELAERE, K. HEUNGENS & M. MAES (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)

- Genetic diversity of Belgian *Phytophthora ramorum* isolates

11:20 K. VAN POUCKE, I. DE DOBBELAERE, K. HEUNGENS & M. MAES (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)

- Distinct *Phytophthora hedraiaandra x cactorum* hybrids in rhododendron

11:40 B. DECLERCQ, E. VAN BUYTEN, S. CLAEYS & M. HÖFTE (Ghent University, Gent, Belgium)

- AFLP analysis of genetic diversity of *Phytophthora porri* isolates associated with leek (*Allium porrum*)

12:00 B. DIERYCK, V. VANHESE, C. BRAGARD & A. LEGRÈVE (Université catholique de Louvain, Louvain la Neuve, Belgium)

- Peanut clump virus transmission by *Polymyxa graminis* under controlled conditions

12:20 K. CURVERS, G. MOUILLE, H. HÖFTE, F. VAN BREUSEGEM & M. HÖFTE (Ghent University, Gent, Belgium)

- A role for the cell wall in the resistance of the ABA-deficient sitiens tomato mutant against the necrotrophic fungus *Botrytis cinerea*

13:00 Lunch

14:00 Posters

14:45 Coffee

- 15:00 W. VAN HEMELRIJCK, K. HAUKE, S. VAN LAER, J. DEBODE, K. HEUNGENS, M. MAES & P. CREEMERS (Research Centre for Fruit Cultivation, Sint-Truiden, Belgium)
- Isolation and characterization of *Colletotrichum* spp. from Belgian strawberry
- 15:20 G. GILARDI, M. BAUDINO, M.L. GULLINO & A. GARIBALDI (University of Turin, Torino, Italy)
- Attempts to control *Fusarium* root rot of bean by seed dressing
- 15:40 S. VAN LAER, B. VORSTERMANS, M. HÖFTE & P. CREEMERS (Proefcentrum Fruitteelt, Sint Truiden, Belgium)
- Variation of the efficacy of fungicides against *Stemphylium* is linked with the sensitivity of the pear, the infection pressure in the orchard and the fungicide sensitivity of the strains
- 16:00 J. VANDROEMME, S. BAEYEN, J. VAN VAERENBERGH, P. DE VOS & M. MAES (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)
- Real-time PCR detection of *Xanthomonas fragariae* in strawberry
- 16:20 N. BROOKER, J. WINDORSKI & E. BLUML (Pittsburg State University, Pittsburg, KS, USA)
- Halogenated coumarin derivatives as novel seed protectants

Room: E1.012

Chair	B. GOBIN (pcfruit Gorseem, Sint-Truiden, Belgium)
Vice-chair	P. McEWEN (IRL Research, Cardiff, Great Britain)
Secretary	B. VANDEKERKHOVE & V. DE PUYSSSELEYR (Ghent University, Gent, Belgium)

11:00 G. ROY, K. WATEAU, M. LEGRAND & S. OSTE (FREDON Nord Pas-de-Calais, Loos-en-Gohelle, France)

- Refuges, flower strips, biodiversity and agronomic interest

11:20 M. WENNEKER (Applied Plant Research, Research Unit Fruit, Wageningen UR, Zetten, the Netherlands)

- Biocontrol of the blackberry leaf curling midge (*Dasineura plicatrix*) with entomopathogenic nematodes (*Heterorhabditis*, *Steinernema*), predatory mites (*Hypoaspis*) and beetles (*Atheta*)

11:40 F.J. VERHEGGEN, Q. CAPELLA, J-P. WATHELET & E. HAUBRUGE (Gembloux Agricultural University, Gembloux, Belgium)

- What makes *Episyrphus balteatus* (Diptera: Syrphidae) oviposit on aphid infested tomato plants?

12:00 R.A. BOOTHE, D.J. PONSONBY, M.J.W. COPLAND & R.F. PREZIOSI (Canterbury Christ Church University, Kent, UK)

- Tritrophic effects on survival and development in a coccidophagous coccinellid

12:20 J. WITTERS, B. VERBRUGGEN, G. STERK & R. DE VIS (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)

- *Parasitus americanus* (Berlese): a potential predator of Collembola in lettuce crops?

12:40 M.A. JALALI, T. VAN LEEUWEN, L. TIRRY & P. DE CLERCQ (Ghent University, Gent, Belgium)

- Compatibility of selected insecticides with the two-spotted lady beetle, *Adalia bipunctata* L. (Coleoptera: Coccinellidae)

13:00 Lunch

14:00 Posters

14:45 Coffee

15:00 A. DONKA, H. SERMANN, S. LERCHE & C. BÜTTNER (Humboldt University Berlin, Berlin, Germany)

- Effect of *Lecanicillium muscarium* on predatory mite *Phytoseiulus persimilis*

15:20 B. GOBIN, K. HEYLEN, J. BILLEN, L. ARCKENS & R. HUYBRECHTS (pcfruit Gorsem, Sint-Truiden, Belgium)

- Sublethal effects of crop protection on honey bee pollination: foraging behaviour, flower visits and an evaluation of molecular characterization

15:40 G. PEUSENS & B. GOBIN (pcfruit Gorsem, Sint-Truiden, Belgium)

- Side effects of pesticides on the european earwig *Forficula auricularia* L. (Dermaptera: Forficulidae)

16:00 M. MILES, G. KEMMITT, F. BAKKER & S. ALDERSHOF (Dow AgroSciences, Abingdon, UK)

- The impact of mancozeb on entomofauna communities in apple orchards

16:20 A. PINEDA, Á. MARCOS-GARCÍA & J-P. JANSEN (University of Alicante, Spain)

- Efficacy of four organic pesticides on the aphid *Acyrtosiphon pisum* and their compatibility with the beneficial insect *Episyrphus balteatus*

Room: E1.002 OEHOE

Chair	U. WYSS (University of Kiel, Kiel, Germany)
Vice-chair	A.K. MOURAD (Alexandria University, Alexandria, Egypt)
Secretary	S. VAN POTTELBERGE & W. DERMAUW (Ghent University, Gent, Belgium)

- 11:00 H.E. HUMMEL (Justus Liebig University Giessen, Giessen, Germany)
- *Diabrotica* intra portas germaniae 2007: surprise, disaster, or challenge?
- 11:20 M. BERTOSSA & H.E. HUMMEL (Swiss Federal Research Station Cadenazzo, Contone, Switzerland)
- Experiences with population dynamics of *Diabrotica virgifera virgifera* LeConte in the Swiss canton Ticino up to 2007
- 11:40 R.P. BLACKSHAW, R.S. VERNON & H. HICKS (University of Plymouth, Great Britain)
- The wireworm pest complex: evidence for species differences from spatial studies
- 12:00 J-M. VASSAL, T. BREVAULT, J. ACHALEKE & P. MENOZZI (CIRAD Annual Cropping Systems, Montpellier, France)
- Genetic structure of the polyphagous pest *Helicoverpa armigera* (Lepidoptera : Noctuidae) across the sub-Saharan cotton belt
- 12:20 S. MOURSI KHADIGA, H.A. MESBAH, A.K. MOURAD & I. ABDEL-RAZAK SOAD (Alexandria University, Alexandria, Egypt)
- Ecological studies on San Jose scale, *Diaspidiotus perniciosus* (Comstock) (Homoptera : Diaspididae) as a new insect pest on pear trees at Burg el-Arab area, Alexandria, Egypt
- 12:40 A. HUSSAIN & S.A. SAFIULLAH (Agricultural University Peshawar, Pakistan)
- Role and prospects of IPM for Oriental fruit fly control for sustainable fruit production
- 13:00 Lunch
14:00 Posters
14:45 Coffee

- 15:00 A. SADEGHI, E.J.M. VAN DAMME & G. SMAGGHE (Ghent University, Gent, Belgium)
- Ferritin and α -amylase act as putative target sites for the insecticidal snowdrop lectin (*Galanthus nivalis* agglutinin; GNA) in the cotton leafworm *Spodoptera litoralis*
- 15:20 S. SAKOLTHANA, N. PIYASAENGTHONG, V. BULLANGPOTI, S. VISETSON & C. SUDTHONGKHON (Kasetsart University, Bangkok, Thailand)
- Impacty of botanical extracts derived from leaf extracts *Melia azadarach* L. (Meliaceae) and *Amaranthus viridus* L. (Amaranthaceae) on populations of *Spodoptera exigua* (Hübner) (Lepidoptera: Noctuidae) and detoxification enzyme activities
- 15:40 U. SANGUANPONG & H.E. HUMMEL (Rajamangala University of Technology, Thanyaburi, Thailand)
- Toxicity of *Stemona* root against onion cutworm by using different contacting methods and solvents
- 16:00 M.L. OUAKID, L. TOUATI, Y. ADJAMI, W. HABBACHI, G. SMAGGHE & N. SOLTANI (Université Badji-Mokhtar, Algerie)
- Insecticidal effect of halofenozide and methoxyfenozide in different stages of *Lymantria dispar*, an important cork oak defoliator
- 16:20 U. WYSS (University of Kiel, Kiel, Germany)
- Film documentation on the behaviour and development of the cabbage seedpod weevil *Ceutorhynchus assimilis*
- 16:40 U. WYSS (University of Kiel, Kiel, Germany)
- Film documentation on the behaviour and development of the Brassica pod midge *Dasineura brassicae*

Room: E1.015

Chair	R.A. SIKORA (University of Bonn, Bonn, Germany)
Vice-chair	R.N. PERRY (Rothamsted Research, Harpenden, Great Britain)
Secretary	W. WESEMAEL (Institute for Agricultural and Fisheries Research, Mellebeke, Belgium)

11:00 Y. CHEN, M. DAUB, R.A. SIKORA, Z. CAO & T. MEKETE (University of Bonn, Bonn, Germany)

- Impact and response of nematode communities to reclamation of agricultural soils following massive degradation through brown coal strip-mining processes

11:20 J. MUKUKA, O. STRAUCH & R-U. EHLERS (Christian-Albrechts-University, Kiel, Germany)

- Variability in desiccation tolerance among *Heterorhabditis bacteriophora* Poinar strains

11:40 C. OPPERMAN & D.M. BIRD (North Carolina State University, Raleigh, NC, USA)

- Sequencing and analysis of the *Meloidogyne hapla* genome: a parasite shares its secrets

12:00 D. BIRD & C. OPPERMAN (North Carolina State University, Raleigh, NC, USA)

- *Meloidogyne* genome reorganization: on the road to plant parasitism

12:20 A. HAEGEMAN, B. VANHOLME, J. JACOB, T. KYNDT & G. GHEYSEN (Ghent University, Gent, Belgium)

- Cell-wall degrading enzymes in the migratory nematode *Radopholus similis*

13:00 Lunch

14:00 Posters

14:45 Coffee

- 15:00 S. MITCHINSON, B. KERRY & S. GOWEN (Rothamsted Research, Harpenden, Herts, UK)
- Hidden enemy: cereal cyst nematodes in the UK
- 15:20 B. VANDENBOSSCHE, W. BERT, G. BORGONIE, N. DE SUTTER, G. KARSEN & N. VIAENE (Ghent University, Gent, Belgium)
- Diversity and distribution of plant-parasitic nematodes in golf greens and football pitches
- 15:40 H.T.T. LE, J.L. PADGHAM & R.A SIKORA (University of Bonn, Bonn, Germany)
- Biological control activity of mutualistic fungal endophytes toward the rice root-knot nematode *Meloidogyne graminicola*
- 16:00 D. LONDONO, C.H. SCHOMAKER & T.H. BEEN (Wageningen University, Wageningen, the Netherlands)
- host status and tolerance of the cultivar anastasia (*Chrysanthemum morifolium*) for *Meloidogyne hapla*
- 16:20 Y. VALDÉS VÁZQUEZ, W.M.L. WESEMAEL & R.N. PERRY (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)
- The effects of seaweed-based plant growth products on hatching and behavioural responses of the root-knot nematode, *Meloidogyne chitwoodi*
- 16:40 J.H.M. VISSER, G.W. KORTHALS, J. LAMERS & L.P.G. MOLENDIJK (Applied plant research, Lelystad, the Netherlands)
- Evaluation of biofumigation crops in the control of *P. penetrans* and *V. dahliae*.

Room: A1.015

Chair	H. ZHU (USDA/ARS Application Technology Research Unit, Wooster, Ohio, USA)
Vice-chair	D. NUYTENS (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)
Secretary	M. DE SCHAMPHELEIRE (Ghent University, Gent, Belgium)

11:00 E. BRUSSELMAN, D. NUYTENS, W. STEURBAUT & B. SONCK (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)

- Effect of agitation system on the viability and stress response of *Steinernema carpocapsae*, a biological pesticide

11:20 J. VONDRICKA & P. SCHULZE LAMMERS (University of Bonn, Bonn, Germany)

- Direct nozzle injection system for a real-time site-specific pesticide application

11:40 P. BRAEKMAN & D. NUYTENS (Institute for Agricultural and Fisheries Research, Merelbeke, Belgium)

- Influence of nozzle type and settings on the spray deposition in strawberries and tomatoes

12:00 H. ZHU, Y. YU, H. E. OZKAN, R.C. DERKSEN & C.R. KRAUSE (USDA/ARS Application Technology Research Unit, Wooster, Ohio, USA)

- Evaporation and deposition coverage of single droplets on various waxy surfaces

12:20 M. DE SCHAMPHELEIRE, D. NUYTENS, K. BAETENS, W. CORNELIS, D. GABRIELS & P. SPANOGHE (Ghent University, Gent, Belgium)

- Interception of spray drift by border structures. Part 1: wind tunnel experiments

12:40 M. DE SCHAMPHELEIRE, D. NUYTENS, D. DEKEYSER, K. BAETENS & P. SPANOGHE (Ghent University, Gent, Belgium)

- Interception of spray drift by border structures. Part 2: field experiments

13:00 Lunch

14:00 Posters

14:45 Coffee

Room: A1.015

Chair	B. SCHIFFERS (Gembloux Agricultural University, Gembloux, Belgium)
Vice-chair	I. MESTDAGH (Provinciaal Onderzoeks- en Voorlichtingscentrum voor Land- en Tuinbouw, Rumbeke-Beitem, Belgium)
Secretary	E. DE BACKER (Ghent University, Gent, Belgium)

15:00 J. COOSEMANS & F. PAUWELS (K.U. Leuven, Heverlee. De Ceuster Meststoffen, Grobbendonk, Belgium)

- Alterbromide, EU dissemination project of sustainable alternatives to methylbromide

15:20 G. SMALL, M. MILES, I. BARBER, P. TSAKONAS & R. BUCCHI (Dow AgroSciences, Abingdon, UK)

- The soil ecotoxicology of 1,3-dichloropropene under commercial growing conditions

15:40 I. MESTDAGH, J. MAILLET-MEZERAY, A. CALUS, V. FRANSENS & M. RÖTTELE (Provinciaal Onderzoeks- en Voorlichtingscentrum voor Land- en Tuinbouw, Rumbeke-Beitem, Belgium)

- Critical points for point source pollution in the Yser catchment area (Flanders-France)

16:00 D. GODEAUX, B. SCHIFFERS & M. CULOT (Gembloux Agricultural University, Gembloux, Belgium)

- Impact of the plant protection practices on the environment : survey by the communes and Ministry of Equipment and Transport (MET) of the Walloon Region

16:20 D. GODEAUX, B. SCHIFFERS & M. CULOT (Gembloux Agricultural University, Gembloux, Belgium)

- Impact of the plant protection practices on the operators' exposure: survey by the communes and Ministry of Equipment and Transport (MET) in the Walloon Region

16:40 N. STÉPHANIE, B. BAH BOUBACAR, D. BUFFET, G. COLLINET, A. SOREL & V. HALLET (Agricultural Research Centre of Wallonie, Gembloux, Belgium)

- CRA-W's committee of intervention: analyse of catchments polluted with pesticide

Room: A0.030

Chair	S. MOSS (Rothamsted Research, Harpenden, Herts, UK)
Vice-chair	B. DE CAUWER (Ghent University, Gent, Belgium)
Secretary	E. MECHANT (Ghent University, Gent, Belgium)

11:00 R. ALARCON-REVERTE & S. MOSS (Rothamsted Research, Harpenden, Herts, United Kingdom)

- Resistance to ACCase inhibiting herbicides in the weed *Lolium multiflorum* (Italian rye-grass)

11:20 R. HULL, R. MARSHALL & S. MOSS (Rothamsted Research, Harpenden, Herts, United Kingdom)

- Herbicide resistance to mesosulfuron+iodosulfuron in *Alopecurus myosuroides* (black-grass)

11:40 E. MECHANT, T. DE MAREZ & R. BULCKE (Ghent University, Gent, Belgium)

- Resistance of *Chenopodium album* to Photosystem II-inhibitors

12:00 T. DE MAREZ, E. MECHANT & R. BULCKE (Ghent University, Gent, Belgium)

- Quick tests for monitoring for resistance in *Chenopodium album* L.

12:20 K. DEWITTE, G. VERLINDEN, J. LATRÉ & G. HAESAERT (University College Ghent, Bottelare, Belgium)

- Influence of pre-emergence herbicides on the growth of *Bradyrhizobium lupini*, the symbiont of lupin species

12:40 J. AFONSO (Direcção-Geral de Agricultura e Desenvolvimento Rural (DGADR), Oeiras, Portugal)

- Weed management in *Solanaceae* crops in Portugal

13:00 Lunch

14:00 Posters

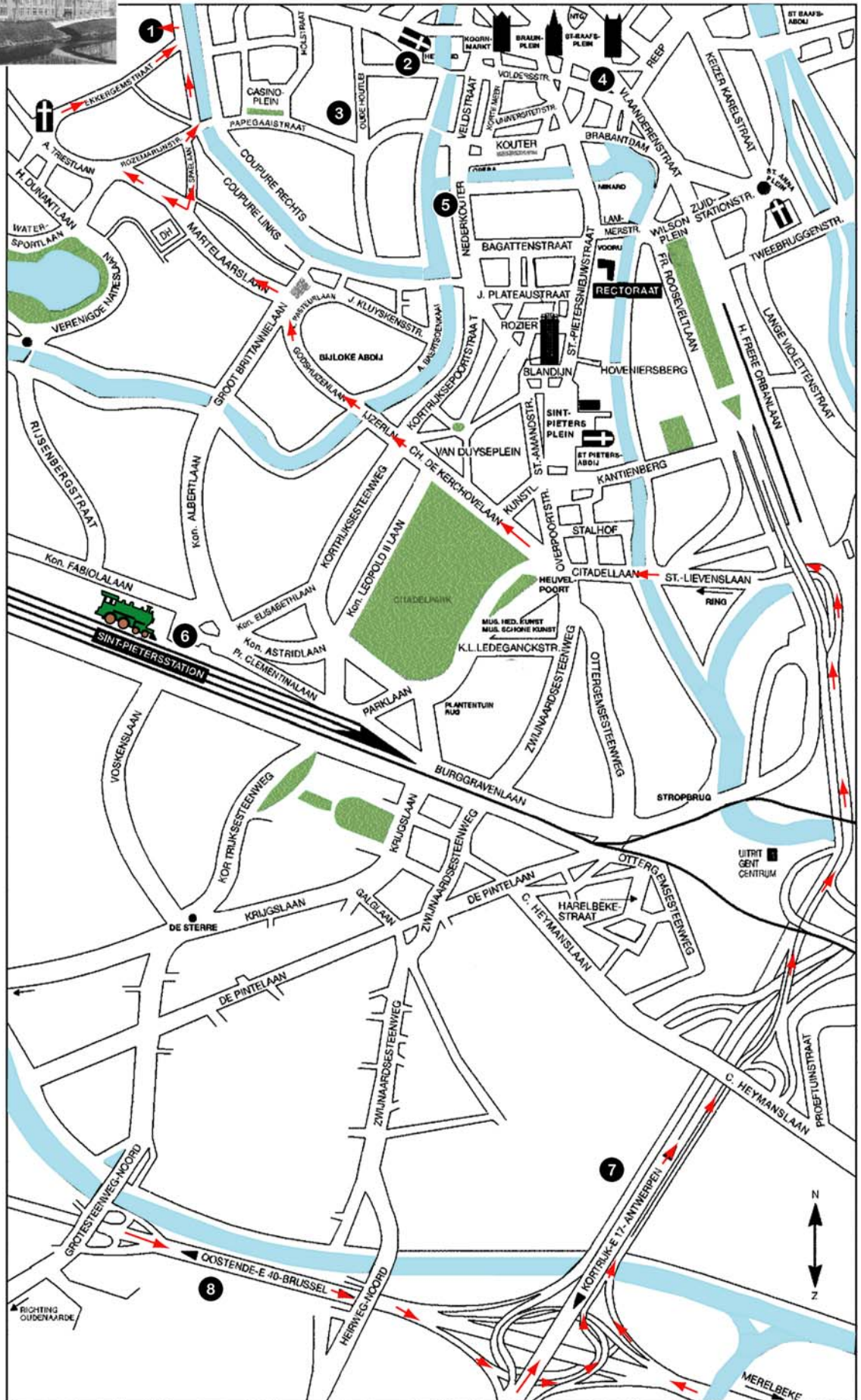
14:45 Coffee

POSTERS

Room: A0.041

see the website
for a list of the posters

www.iscp.ugent.be



1. Faculty Symposium
2. Banquet (Het Pand)
3. Hotel Monasterium PoortAckere
4. Hotel Ibis Centrum

5. Hotel Ibis Opera
6. Railway station Gent Sint-Pieters
7. Highway E17 - Kortrijk-Antwerpen
8. Highway E40 - Oostende-Brussel