



# **Vierde UGent-FTW Doctoraatssymposium**

Faculteit Toegepaste Wetenschappen  
Universiteit Gent



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Het Pand, 3 december 2003

# Programma

- 14:00 - 14:15 *Verwelkoming* door  
◇ dr. Bart Merci, voorzitter van het organiserend comité  
◇ prof. Paul Kiekens, decaan Faculteit Toegepaste Wetenschappen
- 14:15 - 15:30 **Eerste interactieve postersessie**  
**Kloostergang:** *Information Technology - Software*  
**Novicengang:** *Communication Technology - Hardware - Electronics - Electrical Engineering*
- 15:30 - 15:45 Koffiepauze
- 15:45 - 16:30 Voordracht  
*'De geneugten van wetenschappelijk onderzoek'*  
door Prof. Herwig Bruneel (UGent-FTW)  
met aansluitend discussie
- 16:30 - 17:45 **Tweede interactieve postersessie**  
**Zuidergang:** *Applied Physics - Applied Mathematics - Optics - Thermodynamics - Mechanics*  
**Kapittelzaal:** *Chemical Engineering - Materials Engineering - Metallurgy - Textiles - Architecture - Construction - Construction Mechanics*  
**Noordergang:** *Civil Engineering - Biomedical Engineering*
- 17:45 - 18:30 Broodjesmaaltijd
- 18:30 - 19:30 Causerie rond het thema  
*'Universiteit als broedplaats voor ongebonden onderzoek'*  
met  
◇ dhr. Jan Hoet, oud-directeur van het SMAK te Gent  
◇ dhr. Luc Van den Bossche, Voorzitter van de Associatie Universiteit Gent  
◇ prof. Bart Verschaffel, UGent, Faculteit Toegepaste Wetenschappen
- 19:30 Uitreiking *'Presentation Awards'* en aansluitend *receptie*

# Postersessies

## Eerste interactieve postersessie

14:15 - 15:30

## Kloostergang

### *Information Technology*

- 001 **Data Structures and Algorithms that Allow Dynamic Querying on Large Data Sets**  
Bert Callens, Guy De Tré and Rita De Caluwe
- 002 **Compacting Arm Binaries with the Diablo Framework**  
Dominique Chanet and Ludo Van Put
- 003 **MPEG-21 Session Mobility**  
Frederik De Keukelaere and Rik Van de Walle
- 004 **Applying MPEG-21 BSDL to the JVT H.264/AVC Specification for Digital Video Coding**  
Wesley De Neve, Frederic Van Quickenborne, Ingrid Moerman, Piet Demeester and Rik Van de Walle
- 005 **Multi-channel publication of multimedia data**  
Davy De Schrijver and Rik Van de Walle
- 006 **MPEG-21 Digital Item Processing**  
Robbie De Sutter and Rik Van de Walle
- 007 **Methods for Scalable Video Coding**  
Koen De Wolf and Rik Van de Walle
- 008 **Scalability and adaptivity of multimedia content**  
Saar De Zutter and Rik Van de Walle
- 009 **Improved Static Branch Prediction for Weak Dynamic Predictions**  
Veerle Desmet, Lieven Eeckhout and Koen De Bosschere
- 010 **Design and analysis of OPS networks**  
Chris Develder, Elise Baert, Mario Pickavet and Piet Demeester
- 011 **Network Hosted Transcoding Services for Optimized Delivery of Multimedia Streams**  
Bart Duysburgh, Thijs Lambrecht, Bart Dhoedt and Piet Demeester
- 012 **Java Programs and Virtual Machines: Observations at the Microarchitectural Level**  
Andy Georges, Lieven Eeckhout and Koen De Bosschere

- 013 **Accurate Replay of Memory Management in Java**  
Tom Ghesquiere, Jong-Deok Choi and Koen De Bosschere
- 014 **Quality-based Comparison of State-of-the-art Video Codecs**  
Peter Lambert and Rik Van de Walle
- 015 **Agent Technologies for Multimedia Content Negotiation**  
Sam Lerouge and Rik Van de Walle
- 016 **Self-modifying code: instrumentation challenges**  
Jonas Maebe, Michiel Ronsse and Koen De Bosschere
- 017 **Intelligent Querying of Databases**  
Tom Matthé, Guy De Tré and Rita De Caluwe
- 018 **ORION: efficient routing at the heart of the internet**  
Erik Van Breusegem, Jan Cheyng, Didier Colle, Mario Pickavet and Piet Demeester
- 019 **On the Use of Statistical Data Analysis Techniques in Workload Characterization**  
Hans Vandierendonck and Koen De Bosschere
- 020 **Middleware-aware performance predictions for distributed software architectures**  
Tom Verdickt, Bart Dhoedt, Frank Gielen and Piet Demeester
- 021 **Temporal Patterns for Model Checking**  
Hannes Verlinde
- 022 **Management Architecture supporting QoS in the Internet based on DiffServ**  
Brecht Vermeulen, Bart Dhoedt and Piet Demeester

## **Software**

- 023 **Diabatic: Diablo's instrumentation toolkit**  
Bruno De Bus
- 024 **Java SPEC favors 32-bit platforms**  
Kris Venstermans and Koen De Bosschere
- 025 **A 1-Dimensional Simulation Tool for Electrophoretic Displays**  
Stefaan Vermael, Kristiaan Neyts, Goran Stojmenovik, Filip Beunis and Luc Schlangen

## **Novicengang**

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### **Communication Technology**

- 026 **Burst Mode Optical Transmitters for BPON and GPON Access Networks**  
Johan Bauwelinck, Yves Martens, Dieter Verhulst, Peter Ossieur, Chen Wei, Wouter Pap-  
paert, Xing-Zhi Qiu and Jan Vandewege
- 027 **Fast moving high bit rate users and terminals**  
Filip De Greve, Bart Lannoo, Tom Van Leeuwen, Frederic Van Quickenborne, Didier Colle,  
Filip De Turck, Ingrid Moerman, Mario Pickavet, Bart Dhoedt and Piet Demeester
- 028 **Planning and Evaluation of Multi-Layer Optical Transport Networks**  
Sophie De Maesschalck, Didier Colle, Mario Pickavet and Piet Demeester

- 029 **MPEG video streamed over an IP-based network with packet loss**  
Philippe De Neve, Pieter De Pauw, Benjamin Truys, Frederic Van Quickenborne, Matthias Priem, Sam Lerouge, Rik Van de Walle, Filip De Turck, Ingrid Moerman and Piet Demeester
- 030 **Routing in Mobile Ad Hoc Networks**  
Jeroen Hoebeke, Benoît Latré, Ingrid Moerman, Bart Dhoedt and Piet Demeester
- 031 **Wavelength Switching of Semiconductor Tunable Lasers**  
Bart Moeyersoon, Johan Wittebolle, Geert Morthier and Roel Baets
- 032 **New intelligent handoff protocols for future generation cellular networks**  
Liesbeth Peters, Tom Van Leeuwen, Ingrid Moerman, Bart Dhoedt and Piet Demeester
- 033 **Real-time twisted pair line emulation**  
Jo Pletinckx and Jan Vandewege
- 034 **Optimal shaping of MPEG video traffic over IP networks**  
Benjamin Truys, Nico Clemminck, Frederic Van Quickenborne, Ingrid Moerman and Piet Demeester
- 035 **Survivable QoS-aware Service Networks**  
Steven Van den Berghe, Pim Van Heuven, Filip De Turck and Piet Demeester
- 036 **Construction of an amplitude histogram of an optical signal using an optical 2R re-generator**  
Sam Verspurten, Geert Morthier and Roel Baets
- 037 **Modeling the Upstream Transmission in a Gigabit PON System**  
Yanchun Yi, Bart Meerschman, Peter Ossieur, Johan Bauwelinck, Xing-Zhi Qiu and Jan Vandewege

## **Hardware**

- 038 **Performance Requirements for Reconfigurable Hardware for a Scalable Video Decoder**  
Harald Devos and Hendrik Eeckhaut

## **Electronics**

- 039 **Discrete time or continuous time A/D-converters?**  
Jeroen De Maeyer
- 040 **Circuit- and Electromagnetic Field Co-Simulation Results in Improved Microwave Design Models**  
Bert De Mulder and Jan Vandewege
- 041 **Transient measurements of heat transfer in electronic devices**  
Piotr Kawka and Gilbert De Mey
- 042 **High performance digital circuitry for Gigabit PON-networks**  
Yves Martens, Johan Bauwelinck, Peter Ossieur, Dieter Verhulst, Xing-Zhi Qiu and Jan Vandewege
- 043 **Modeling and design of Gigabit Burst-Mode Receivers for PON-applications**  
Peter Ossieur, Yves Martens, Dieter Verhulst, Johan Bauwelinck, Wouter Pappaert, Chen Wei, Xing-Zhi Qiu and Jan Vandewege

- 044 **Research of novel metal-polymer binding strategies in sequential build-up technology**  
Sam Siau, Alfons Vervaet, André Van Calster and Etienne Schacht
- 045 **High resolution RF Vector Network Analysis**  
Pieter Suanet and Jan Vandewege
- 046 **An FMM-PML-MPIE formalism for 2D microstrips**  
Dries Vande Ginste, Hendrik Rogier, Daniël De Zutter and Frank Olyslager
- 047 **An FPGA-based Lab Test Bed for a Gigabit Passive Optical Network**  
Stefaan Verschuere, Lou Zhe, Yanchun Yi, Dieter Verhulst, Xing-Zhi Qiu and Jan Vandewege

### ***Electrical Engineering***

- 048 **Multi-Objective Optimized Design of Switched Reluctance Motors Using Response Surface Method and Genetic Algorithm**  
Francis Bokose
- 049 **Review on Permanent-Magnet Synchronous Motor Drives without Mechanical Position Sensor**  
Frederik De Belie
- 050 **Digitally Controlled Boost PFC Converters operated in Mixed Conduction Mode**  
Koen De Gussemé
- 051 **Noise and Vibrations of Magnetic Origin in Electrical Machines**  
Tom Hilgert
- 052 **Distributed Monitoring and Diagnosis of Electrical Power Networks**  
George Jiroveanu and René K. Boel
- 053 **Thick Film Technology for RF Applications**  
Tomas Podprocky, Pieter Godderis, Johan De Baets and André Van Calster
- 054 **Active Magnetic Shielding of Induction Heaters**  
Peter Sergeant
- 055 **Digital control of switching power supplies**  
David Van de Sype
- 056 **Magnetic Non-destructive Evaluation of Ferromagnetic Materials**  
Lode Vandenbossche
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## **Tweede interactieve postersessie**

16:30 - 17:45

### **Zuidergang**

#### ***Applied Physics***

- 057 **First results on the effect of the dynamic ergodic divertor on carbon ions and their radiation properties**  
Kristel Crombé, Giuseppe Telesca and Guido Van Oost
- 058 **Experimental study of a diaphragm underwater discharge**  
Filip De Baerdemaeker, Michael Monte and Christophe Leys
- 059 **Comparison of the dynamic ergodic divertor of the tokamak TEXTOR with the static ergodic divertor of the tokamak Tore Supra**  
Thibaut Van Rompuy, Karl Heinz Finken, James P. Gunn, Michael Lehnen, Thierry Loarer and Guido Van Oost

#### ***Applied Mathematics***

- 060 **Phase Locking in a Ring of Oscillators**  
Dirk Aeyels and Jonathan Rogge
- 061 **Computation of magnetostriction and deformation in micromagnetics**  
Lubomír Bañas
- 062 **The Continuous Wavelet Transform in Clifford Analysis**  
Fred Brackx, Nele De Schepper and Frank Sommen
- 063 **A new scheme for a micromagnetic equation**  
Ivan Cimrák
- 064 **Numerical Computation of the Outgoing Heat Flux along a Cylinder with Uniform Heat Flux Applied**  
Cosmin Dan, Gilbert De Mey and Erik Dick
- 065 **Command line completion: an illustration of learning and decision making using the imprecise Dirichlet model**  
Erik Quaeghebeur and Gert de Cooman
- 066 **Reliable Interval Estimates for Download Times**  
Matthias Troffaes and Gert de Cooman

#### ***Optics***

- 067 **Experiments and simulations of nonlinearly induced self-waveguiding in liquid crystals**  
Jeroen Beeckman, Xavier Hutsebaut, Cyril Cambournac, Kristiaan Neyts and Marc Haelterman

- 068 **Nanophotonic waveguides in Silicon-on-Insulator Fabricated with CMOS Technology**  
Wim Bogaerts, Pieter Dumon, Vincent Wiaux, Johan Wouters, Stephan Beckx, Dirk Taillaert, Bert Luyssaert, Joris Van Campenhout, Dries Van Thourhout and Roel Baets
- 069 **Microring resonators as building blocks for VLSI photonics**  
Ilse Christiaens
- 070 **A Modus Operandi for Designing Laser-based Guided-Wave 2D Parallel Optical Interconnects**  
Michiel De Wilde, Olivier Rits and Jan Van Campenhout
- 071 **Optical transmission model for thin two-dimensional layers**  
Chris Desimpel, Kristiaan Neyts, Dimitri Olivero, Claudio Oldano, Dick K.G. de Boer and Rogier Cortie
- 072 **Compact Photonic Spot-Size Converters**  
Bert Luyssaert, Peter Vandersteegen and Roel Baets
- 073 **Efficient light coupling into sub-micrometer waveguides**  
Dirk Taillaert and Roel Baets

### ***Thermodynamics***

- 074 **Critical view on the SBI test method**  
Bart Sette
- 075 **Systematical study and development of models for smoke movement in numerical simulations of fire**  
Karim Van Maele
- 076 **Numerical Flow Calculations in Rotary Volumetric Machines using the ALE Technique**  
John Vande Voorde
- 077 **Development of hydrogen engines**  
Sebastian Verhelst and Roger Sierens

### ***Mechanics***

- 078 **Development of a Micro Air Vehicle**  
Peter Cosyn
- 079 **Ultrasonics: a Fascinating Field of Physics and its Applications**  
Nico F. Declercq, Joris Degrieck and Oswald Leroy
- 080 **Ship manoeuvring behaviour in muddy navigation areas**  
Guillaume Delefortrie
- 081 **The simulation of fluid flow with Mach-uniform algorithms**  
Krista Nerinckx, Jan Vierendeels and Erik Dick
- 082 **Modelling of friction in wet shift clutches for automatic transmissions**  
Wouter Ost and Patrick De Baets
- 083 **An efficient FE shell element for the simulation of fatigue damage in composite structures**  
Jochen Zeischka, Wim Van Paepegem and Joris Degrieck

# Kapittelzaal

## *Chemical Engineering*

- 084 **Complex kinetics in the context of FCC simulations**  
Edward Baudrez
- 085 **Kinetic Modeling of Acid Catalyzed Reactions**  
Ionel I. Craciun
- 086 **DFT-based reactivity indices within radical reactions**  
Karen Hemelsoet, Veronique Van Speybroeck and Michel Waroquier
- 087 **Exploration of novel reaction pathways using thermally non-equilibrium ab initio molecular dynamics simulations**  
David Lesthaeghe, Veronique Van Speybroeck and Michel Waroquier
- 088 **A Fundamental Kinetic Model for Fischer Tropsch Synthesis**  
Gisela Lozano Blanco
- 089 **Description of coke formation from selected coke precursors in the cracking of model hydrocarbons using Single-Event Microkinetics**  
Roberto Quintana-Solórzano
- 090 **Fire-side modeling in cracking furnaces**  
Georgios Stefanidis
- 091 **Ab initio kinetic parameters of free radical polymerization reactions**  
Karen Van Cauwer, Veronique Van Speybroeck and Michel Waroquier
- 092 **An exact model for internal rotors in hydrocarbons**  
Peter Vansteenkiste, Dimitri Van Neck, Veronique Van Speybroeck and Michel Waroquier
- 093 **The Influence of Additives on Thermal Cracking of Hydrocarbons**  
Jidong Wang

## *Materials Engineering*

- 094 **Cold and hot compression tests of 1050, 5083 and 6082 aluminium alloys**  
Abdellah Airod, Rafael Colás and Yvan Houbaert
- 095 **Characterization of metastable austenite FeCMnSi TRIP-aided steel by neutron diffraction**  
Liesbeth Barbé and Bruno C. De Cooman
- 096 **Hot dipping and diffusion annealing: a new route for the production of electrical steel from the magnetic and diffusion point of view**  
José Barros and Yvan Houbaert
- 097 **Influence of electro-discharge machining on tribological behaviour of hardmetals**  
Koenraad Bonny and Patrick De Baets
- 098 **TEM Study of Planar Defects in a Fe-16Mn-5Cr Steel**  
Lieven Bracke and Bruno C. De Cooman
- 099 **The influence of micro-alloying elements on the mechanical properties of cold rolled CMnAlSiP TRIP steels**  
Daniel Krizan, Liesbeth Barbé, Joachim Antonissen and Bruno C. De Cooman

- 100 **Wear Mechanisms of Polymer Matrix Composites**  
Jan Quintelier, Patrick De Baets and Joris Degrieck
- 101 **Microbial fuel cells: optimization of the anode for improved electron transfer**  
Korneel Rabaey, Geert Lissens, Willy Verstraete and Marc Verhaege
- 102 **On the workability of high silicon steel**  
Pablo Rodríguez Cavillo and Yvan Houbaert
- 103 **Room and 'in-situ' high temperature Mössbauer study of ordering phenomena in Fe-Si (0-22 at.%) alloys**  
Daniel Ruiz, Robert E. Vandenberghe and Yvan Houbaert
- 104 **Quasi-adiabatic effects during the high strain rate deformation of TRIP-Aided Steels**  
Ludovic Samek, Bruno C. De Cooman, Joost Van Slycken, Patricia Verleysen and Joris Degrieck
- 105 **Tribological behaviour of Polyimides**  
Pieter Samyn, Patrick De Baets and Gustaaf Schoukens
- 106 **Study of Scale Behaviour during Hot Rolling Process**  
Lucía Suarez and Yvan Houbaert
- 107 **Shear-Driven Transport and Binding Reactions of Macro-Molecules in Nano-Channels**  
Tony Tuzolana, Patrick De Baets and Gert Desmet
- 108 **Improvement of the shape memory effect in Fe-Mn-Si-Cr-Ni SMAs**  
Nele Van Caenegem and Bruno C. De Cooman
- 109 **Impact Behaviour of a New Hybrid Composite Material**  
Filip Van den Abeele, Joris Degrieck and Wim Van Paepegem
- 110 **The Behaviour of TRIP-steels at High Strain Rates**  
Joost Van Slycken, Patricia Verleysen, Joris Degrieck, Ludovic Samek and Bruno C. De Cooman
- 111 **The Onset of Abnormal Grain Growth during the Annealing of an Ultra Low Carbon Steel**  
Kim Verbeken and Leo Kestens

## **Metallurgy**

- 112 **Influence of Mn, Cr and N on Phase Transformations in Fe-Mn Alloys**  
Nieves Cabañas and Bruno C. De Cooman
- 113 **Zn-Al-Mg coatings on steel**  
Evy De Bruycker and Bruno C. De Cooman
- 114 **Revealing a parent phase structure after transformation by crystallographic means**  
Ruben Decocker, Leo Kestens and Yvan Houbaert
- 115 **Study of Hydrogen Diffusion and Hydrogen Thermal Desorption in Low Carbon Steels**  
Isabelle Tolleneer and Bruno C. De Cooman

## **Textiles**

- 116 **New Method for Characterizing Intelligent Textiles by means of Electrochemical Impedance Spectroscopy**  
Georgios Priniotakis, Philippe Westbroek, Lieva Van Langenhove and Paul Kiekens

## **Architecture**

- 117 **Building simulation to predict the performances of natural night ventilation: sensitivity analysis**  
Hilde Breesch and Arnold Janssens
- 118 **Concrete constructions in Belgian Architecture (1890-2000) Innovations and Experiments**  
Dirk Fredricx
- 119 **The typology of the schoolsite & school architecture**  
Maarten Van Den Driessche

## **Construction**

- 120 **On the possibilities and limits of Glass Beams**  
Jan Belis
- 121 **Biokatalytic Processes on Concrete Surfaces**  
Bernard De Graef and Nele De Belie
- 122 **Stringer Stiffened Cylinders on Local Supports**  
Wesley Vanlaere

## **Construction Mechanics**

- 123 **Numerical Modelling of Rotational Restraint between Cold-Formed Steel Purlin and Roof Systems**  
Kali Babu Katnam

## **Noordergang**

### **Civil Engineering**

- 124 **Interpretation of SCPT data using the cross-correlation method**  
Lou Areias, Wim Haegeman, William F. Van Impe and Alain Holeyman
- 125 **Chloride Penetration in Self Compacting Concrete**  
Katrien Audenaert and Geert De Schutter
- 126 **Fatigue of orthotropic plated bridge decks subject to various traffic load types**  
Wouter De Corte and Philippe Van Bogaert
- 127 **Modeling of the Interaction between Cattle Claw and Concrete Floor**  
Arnold Franck and Nele De Belie
- 128 **Determination of material damping with seismic cone penetration test and bender elements in triaxial cell**  
Lutz Karl and Wim Haegeman
- 129 **Study of the Effect of Corrosion Inhibitors in Reinforced Concrete Using Non-destructive Electrochemical Technique**  
Lin Luo and Geert De Schutter

- 130 **Isotropic small strain stiffness of Kaolinite clay**  
Keeratikan Piriyakul and Wim Haegeman
- 131 **Geotechnical characterisation of stabilised dredged sludge**  
Ramiro Daniel Verastegui Flores
- 132 **Neural network prediction of wave overtopping**  
Hadewych Verhaeghe

### ***Biomedical Engineering***

- 133 **Analysis of Left Ventricular Diastolic Wall Motion and Hemodynamics using Ultrasound Imaging**  
Tom Claessens, Patrick Segers and Pascal Verdonck
- 134 **Variance reduction techniques for Monte Carlo simulations in nuclear medical imaging**  
Jan De Beenhouwer and Steven Staelens
- 135 **Regularization for lesion detection in emission tomography**  
Stijn De Clercq
- 136 **Brain white matter fiber tractography using diffusion tensor magnetic resonance imaging**  
Steven Delputte
- 137 **Validation of a fluid-structure interaction model of the aortic heart valve**  
Kris Dumont, Marco Stijnen, Jan Vierendeels, Patrick Segers and Pascal Verdonck
- 138 **Flow assessment in hemodialyzers using SPECT visualization and computer simulations**  
Sunny Eloot, Pieter De Bondt and Pascal Verdonck
- 139 **Sequence design for diffusion tensor magnetic resonance imaging**  
Els Fieremans
- 140 **MRI and 3D Ultrasound for CFD-based carotid geometry reconstruction and flow prediction: a cross-comparison**  
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- 141 **Incorporation of anisotropy in realistic headmodels for EEG source localisation**  
Hans Hallez, Peter Van Hese, Paul Boon, Ignace Lemahieu and Rik Van de Walle
- 142 **GATE, a Giant4 based simulation platform for nuclear medicine: development, validation and application modeling**  
Steven Staelens, Ignace Lemahieu and Rik Van de Walle
- 143 **Dynamic Reconstruction in Emission Tomography**  
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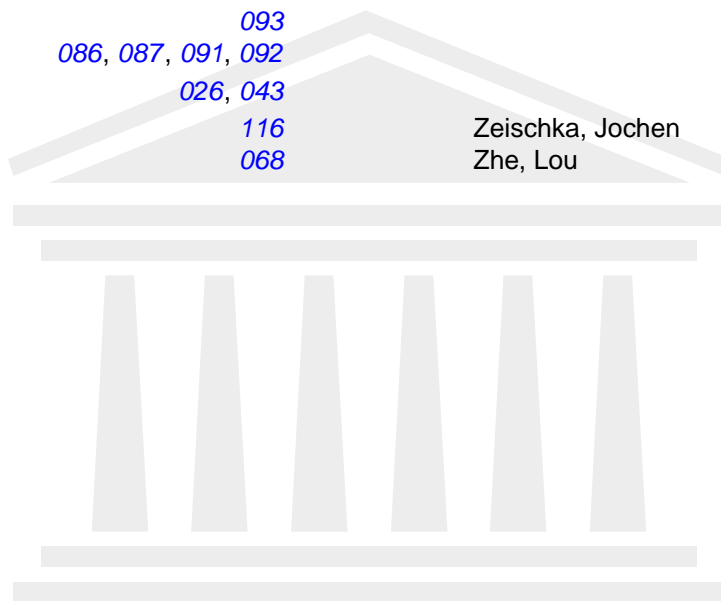
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Waroquier, Michel 086, 087, 091, 092  
Wei, Chen 026, 043  
Westbroek, Philippe 116  
Wiaux, Vincent 068

**Z**

Zeischka, Jochen 083  
Zhe, Lou 047



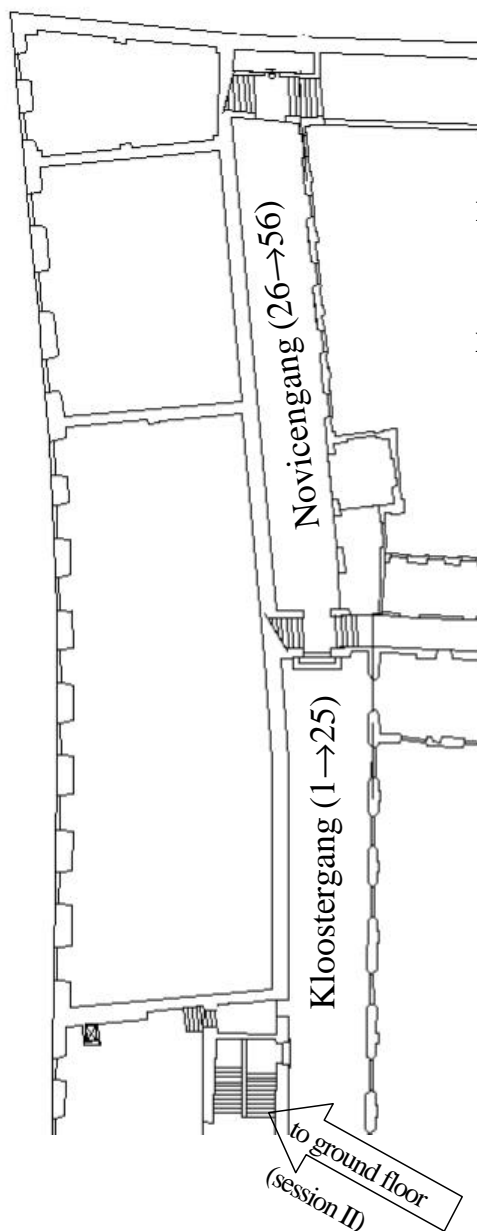
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# Opstelling van de posters

## Eerste interactieve postersessie

### eerste verdieping



#### **Kloostergang:**

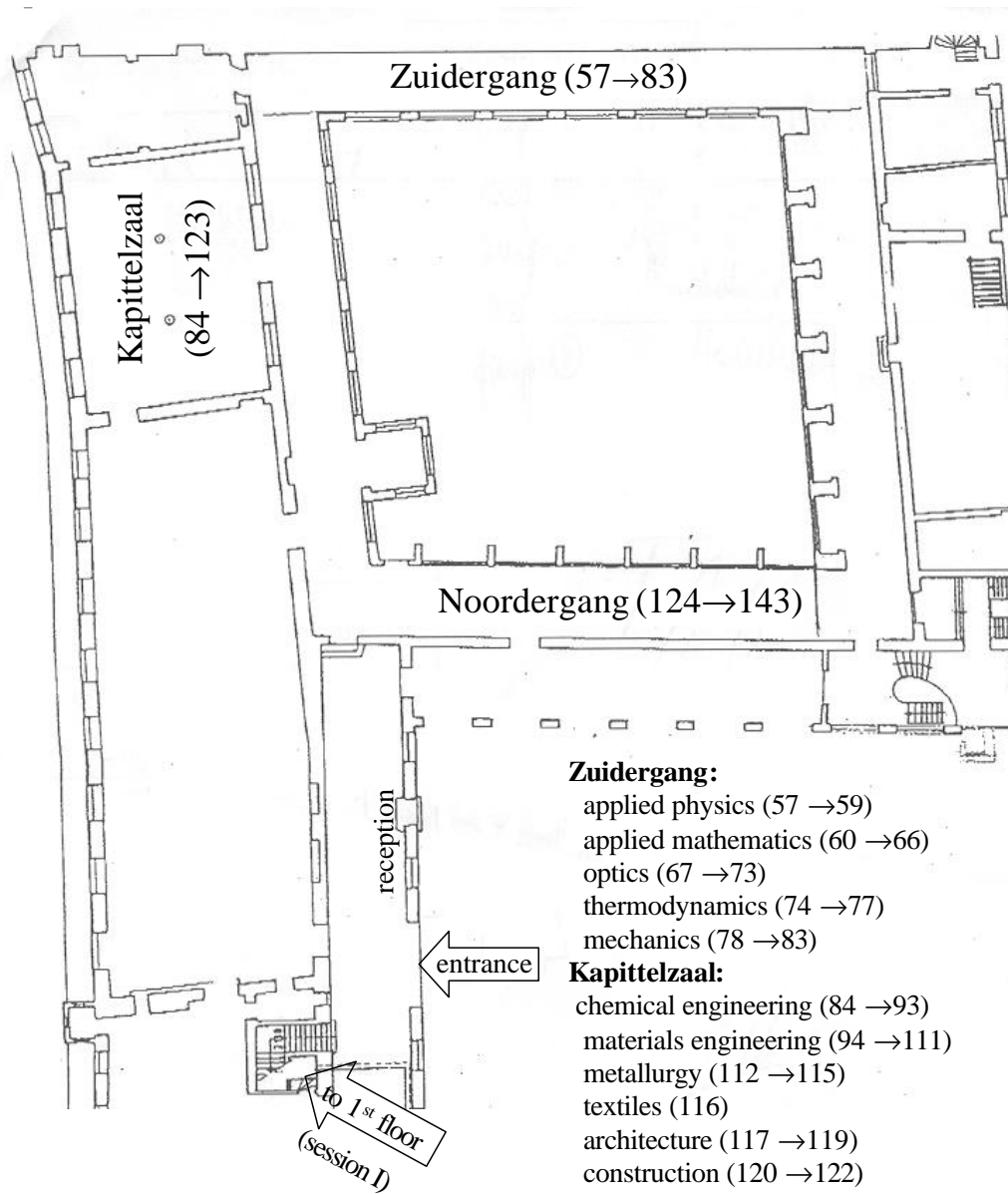
information technology (1→22)  
software (23 →25)

#### **Novicengang:**

communication technology (26 →37)  
hardware (38)  
electronics (39 →47)  
electrical engineering (48 →56)

# Tweede interactieve postersessie

## gelijkvloers



**Zuidergang:**

- applied physics (57 →59)
- applied mathematics (60 →66)
- optics (67 →73)
- thermodynamics (74 →77)
- mechanics (78 →83)

**Kapittelzaal:**

- chemical engineering (84 →93)
- materials engineering (94 →111)
- metallurgy (112 →115)
- textiles (116)
- architecture (117 →119)
- construction (120 →122)
- construction mechanics (123)

**Noordergang:**

- civil engineering (124 →132)
- biomedical engineering (133 →143)