Practical information

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# 1 Program

## 1.1 CHES Tutorials 2012 program

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>Registration CHES and Tutorials</td>
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<tr>
<td>09:00 - 10:45</td>
<td>Tutorial 1</td>
<td>Junfeng Fan, KU Leuven</td>
</tr>
<tr>
<td></td>
<td>College De Valk, Tiensestraat 41</td>
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<tr>
<td></td>
<td>Cryptographic hardware: how to make it cool, fast and unbreakable</td>
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<tr>
<td>10:45 - 11:10</td>
<td>Morning Break</td>
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<tr>
<td>11:10 - 12:25</td>
<td>Tutorial 1</td>
<td>Junfeng Fan, KU Leuven</td>
</tr>
<tr>
<td></td>
<td>College De Valk, Tiensestraat 41</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cryptographic hardware: how to make it cool, fast and unbreakable</td>
<td></td>
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<tr>
<td>12:25 – 13:40</td>
<td>Lunch</td>
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<tr>
<td>13:40 - 15:10</td>
<td>Tutorial 2</td>
<td>Diego Aranha, Univ. of Brasília</td>
</tr>
<tr>
<td></td>
<td>College De Valk, Tiensestraat 41</td>
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<tr>
<td></td>
<td>Efficient binary field arithmetic and applications to curve-based cryptography</td>
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<tr>
<td>15:10 - 15:35</td>
<td>Afternoon Break</td>
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<tr>
<td>15:35 - 17:00</td>
<td>Tutorial 2</td>
<td>Diego Aranha, Univ. of Brasília</td>
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<td>College De Valk, Tiensestraat 41</td>
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<tr>
<td></td>
<td>Efficient binary field arithmetic and applications to curve-based cryptography</td>
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</tbody>
</table>

| 18:00 - 21:00 | Reception and Registration CHES                                   |
|              | Auditorium Pieter De Somer, Deberiotstraat 24                    |

Note: If you plan to skip any of the lunches or the banquet (if you are registered), please notify registration desk. Thanks for your collaboration.
### 1.2 CHES 2012 program

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Session</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 - 08:45</td>
<td>Registration</td>
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<tr>
<td>08:45 - 09:00</td>
<td>Welcome</td>
<td></td>
<td>Sebastien Briais (Secure-IC), Stéphane Caron (ENS), Jean-Michel Cioranesco (Univ. Paris 2), Jean-Luc Danger, Sylvain Guilley (TELECOM ParisTech), Jacques-Henri Jourdan, Arthur Milchior, David Naccache (ENS), Thibault PorteBoeuf (Secure-IC)</td>
<td>3D hardware canaries</td>
</tr>
<tr>
<td>9:00 - 10:15</td>
<td>Intrusive Attacks and Countermeasures</td>
<td>Chair: Matthias Wagner</td>
<td>Sergei Skorobogatov (Univ. of Cambridge), Christopher Woods (Quo Vadis Labs)</td>
<td>Breakthrough silicon scanning discovers backdoor in military chip</td>
</tr>
<tr>
<td>10:15 - 10:45</td>
<td>Morning Break + Posters</td>
<td></td>
<td>Begul Bilgin, Svetla Nikova (KU Leuven), Ventzislav Nikov (NXP Semiconductors), Vincent Rijmen (KU Leuven and TU Graz), G. Stütz (TU Graz)</td>
<td>Simple photonic emission analysis of AES</td>
</tr>
<tr>
<td>10:45 - 12:25</td>
<td>Masking</td>
<td>Chair: Stefan Mangard</td>
<td>Amir Moradi, Oliver Mischke (RU Bochum)</td>
<td>How far should theory be from practice? Evaluation of a countermeasure</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Location</td>
<td>Speakers</td>
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<tr>
<td>12:25 - 14:00</td>
<td>Efficient and provably secure methods for switching from arithmetic to boolean masking</td>
<td></td>
<td>Blandine Debraize (Gemalto)</td>
<td></td>
</tr>
<tr>
<td>14:00 - 14:50</td>
<td><strong>Lunch Salons Georges, Hogeschoolplein 15</strong></td>
<td></td>
<td>Subhadeep Banik, Subhamoy Maitra, Santanu Sarkar (IST)</td>
<td>A differential fault attack on the grain family of stream ciphers</td>
</tr>
<tr>
<td></td>
<td>Improved Fault Attacks and Side Channel Analysis (Part 1)</td>
<td></td>
<td>Yossef Oren (Tel Aviv Univ.), Mathieu Renauld, François-Xavier Standaert (UCL Crypto Group), Avishai Wool (Tel Aviv Univ.)</td>
<td>Algebraic side-channel analysis beyond the Hamming weight leakage model</td>
</tr>
<tr>
<td>14:50 - 15:10</td>
<td><strong>Afternoon Break + Posters</strong></td>
<td></td>
<td>Oscar Reparaz, Benedikt Gierlichs, Ingrid Verbauwhede (KU Leuven)</td>
<td>Selecting time samples for multivariate DPA attacks</td>
</tr>
<tr>
<td></td>
<td>Improved Fault Attacks and Side Channel Analysis (Part 2)</td>
<td></td>
<td>Benoît Gérard, François-Xavier Standaert (UCL Crypto Group)</td>
<td>Unified and optimized linear collision attacks and their application in a non-profiled setting</td>
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<tr>
<td>16:00 - 16:30</td>
<td><strong>Posters</strong></td>
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<tr>
<td>16:30 - 17:30</td>
<td>Brewery Visit (Group 1) Buses depart at 16:30 from Deberiotstraat 24</td>
<td></td>
<td>Walking Tour Departs from Deberiotstraat 24</td>
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<tr>
<td>17:30 - 18:30</td>
<td>Brewery Visit (Group 2) Buses depart at 17:30 from Deberiotstraat 24</td>
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<tr>
<td>18:00 - 19:30</td>
<td><strong>Walking Dinner</strong></td>
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<tr>
<td>19:30 - 21:30</td>
<td><strong>Rump Session</strong></td>
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<td>Chair: Benedikt Gierlichs</td>
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<tr>
<td>21:30 - 22:15</td>
<td><strong>Big Band Concert</strong></td>
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<tr>
<td>08:45 - 09:00</td>
<td>Registration</td>
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<tr>
<td></td>
<td>Marcel Medwed, François-Xavier Standaert (UCL Crypto Group), Antoine Joux (Univ. de Versailles)</td>
<td>Towards super-exponential side-channel security with efficient leakage-resilient PRFs</td>
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<tr>
<td>09:00 - 10:15</td>
<td>Leakage Resiliency and Security Analysis</td>
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<td>Chair: Olivier Pereira</td>
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<td>Sebastian Faust (Aarhus Univ.), Krzysztof Pietrzak, Joachim Schipper (IST Austria)</td>
<td>Practical leakage-resilient symmetric cryptography</td>
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<td></td>
<td>Yunsi Fei (Northeastern Univ., Boston), Qiassi Luo (Marvell Technology), A. Adam Ding (Northeastern Univ., Boston)</td>
<td>A statistical model for DPA with novel algorithmic confusion analysis</td>
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<td>10:15 - 10:45</td>
<td>Morning Break + Posters</td>
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<td></td>
<td>Urich Rührmair (TU München), Marten van Dijk (RSA Laboratories)</td>
<td>Practical security analysis of PUF-based two-player protocols</td>
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<td>Vincent van der Leest (Intrinsic-ID), Bart Preneel (KU Leuven and IBBT), Erik van der Sluis (Intrinsic-ID)</td>
<td>Soft decision error correction for compact memory-based PUFs</td>
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<td>10:45 - 12:25</td>
<td>Physically Unclonable Functions</td>
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<td>Chair: Nele Mentens</td>
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<td>Stefan Katzenbeisser, Ünal Kocabas (TU Darmstadt), Vladimir Rozic (KU Leuven), Ahmad-Reza Sadeghi (TU Darmstadt), Ingrid Verbauwhede (KU Leuven), Christian Wachsmann (TU Darmstadt)</td>
<td>PUFs: myth, fact or busted? A security evaluation of physically unclonable functions (PUFs) poured in silicon</td>
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<td>Roel Maes, Anthony Van Herrewege, Ingrid Verbauwhede (KU Leuven and IBBT)</td>
<td>PUFKY: a fully functional PUF-based cryptographic key generator</td>
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<td>12:25 - 14:00</td>
<td>Lunch Salons Georges, Hogeschoolplein 15</td>
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<td>Time</td>
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<tr>
<td>14:00 – 15:00</td>
<td>Invited Talk I</td>
<td>Steven Murdoch, Univ. of Cambridge</td>
<td>Banking security: attacks and defences</td>
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<td>Chair: Patrick Schaumont</td>
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<td>15:00 – 15:20</td>
<td><strong>Afternoon Break + Posters</strong></td>
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<tr>
<td>15:20 – 16:10</td>
<td>Efficient Implementations (Part 1)</td>
<td>Daniel J. Bernstein, Peter Schwabe (Univ. of Illinois at Chicago and Academia Sinica)</td>
<td>NEON crypto</td>
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<td>Chair: Kazuo Sakiyama</td>
<td>Stefan Heyse, Tim Güneysu (RU Bochum)</td>
<td>Towards one cycle per bit asymmetric encryption: code-based cryptography on reconfigurable hardware</td>
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<tr>
<td>16:10 – 16:20</td>
<td><strong>Intermezzo</strong></td>
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<tr>
<td>16:20 – 17:10</td>
<td>Efficient Implementations (Part 2)</td>
<td>Tung Chou (Academia Sinica), Chen-Mou Cheng (National Taiwan Univ. and Intel Connected Context Computing Center), Ruben Niederhagen (Eindhoven Univ. of Technology and Academia Sinica), Bo-Yin Yang (Academia Sinica)</td>
<td>Solving quadratic equations with XL on parallel architectures</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chair: Kazuo Sakiyama</td>
<td>Peter Czypek, Stefan Heyse, Enrico Thomae (RU Bochum)</td>
<td>Efficient implementations of MQPKS on constrained devices</td>
<td></td>
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<tr>
<td>19:30 – 22:15</td>
<td><strong>Banquet Faculty Club, Groot Begijnhof 14</strong></td>
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<td>Time</td>
<td>Event</td>
<td>Session</td>
<td>Authors</td>
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<tr>
<td>08:45 - 09:00</td>
<td>Registration</td>
<td>Session</td>
<td>Authors</td>
<td>Title</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Stéphanie Kerckhof, François Durvaux, Cédric Hocquet, David Bol, François-Xavier Standaert (UCL Crypto Group)</td>
<td>Towards green cryptography: a comparison of lightweight ciphers from the energy viewpoint</td>
</tr>
<tr>
<td>09:00 - 10:15</td>
<td>Lightweight Cryptography</td>
<td>Chair: Jens-Peter Kaps</td>
<td>Seiichi Matsuda (Sony Corporation), Shiho Moriai (NICT)</td>
<td>Lightweight cryptography for the cloud: exploit the power of bitslice implementation</td>
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<td>Miroslav Knezevic, Ventzislav Nikov, Peter Rombouts (NXP Semiconductors)</td>
<td>Low-latency encryption - is &quot;lightweight = light + wait&quot;?</td>
</tr>
<tr>
<td>10:15 - 10:45</td>
<td>Morning Break + Posters</td>
<td></td>
<td>Pierre-Alain Fouque (ENS / INRIA Rennes), Nicolas Guillermin, Delphine Leresteux (DGA IS), Mehdi Tibouchi (NTT Secure Platform Laboratories), Jean-Christophe Zapalowicz (INRIA Rennes)</td>
<td>Attacking RSA-CRT signatures with faults on Montgomery multiplication</td>
</tr>
<tr>
<td>10:45 - 12:25</td>
<td>We still love RSA</td>
<td>Chair: Çetin Koç</td>
<td>Michael Vielhaber (Hochschule Bremerhaven)</td>
<td>Reduce-by-feedback: timing resistant and DPA-aware modular multiplication, plus: how to break RSA by DPA</td>
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<td>Santanu Sarkar, Subhamoy Maitra (IST)</td>
<td>Side channel attack to actual cryptanalysis: breaking CRT-RSA with low weight decryption exponents</td>
</tr>
<tr>
<td>12:25 - 14:00</td>
<td>Lunch Salons Georges, Hogeschoolplein 15</td>
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<tr>
<td>Time</td>
<td>Event Description</td>
<td>Chair</td>
<td>Speaker(s)</td>
<td>Abstract</td>
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<tr>
<td>14:00 - 15:00</td>
<td>Invited Talk II Chair: Emmanuel Prouff</td>
<td></td>
<td>Christof Tarnovsky, Flylogic Engineering</td>
<td>TBA</td>
</tr>
<tr>
<td>15:00 - 15:20</td>
<td>Afternoon Break + Posters</td>
<td></td>
<td></td>
<td>Pushing the limits of high-speed GF(2^m) elliptic curve scalar multiplication on FPGAs</td>
</tr>
<tr>
<td>15:20 - 16:10</td>
<td>Hardware Implementations (Part 1) Chair: Viktor Fischer</td>
<td></td>
<td>Chester Rebeiro, Sujoy Sinha Roy, Debdeep Mukhopadhyay (IIT)</td>
<td>On the design of hardware building blocks for modern lattice-based encryption schemes</td>
</tr>
<tr>
<td>16:10 - 16:20</td>
<td>Intermezzo</td>
<td></td>
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<tr>
<td>16:20 - 17:10</td>
<td>Hardware Implementations (Part 2) Chair: Viktor Fischer</td>
<td></td>
<td>Tim Güneysu (RU Bochum), Vadim Lyubashevsky (INRIA / ENS), Thomas Pöppelmann (RU Bochum)</td>
<td>Practical lattice-based cryptography: a signature scheme for embedded systems</td>
</tr>
<tr>
<td>17:10 - 17:30</td>
<td>Closing Remarks and Farewell</td>
<td></td>
<td>Jen-Wei Lee, Szu-Chi Chung, Hsie-Chia Chang, Chen-Yi Lee (National Chiao Tung Univ.)</td>
<td>An efficient countermeasure against correlation power-analysis attacks with randomized Montgomery operations for DF-ECC processor</td>
</tr>
</tbody>
</table>
### 1.3 FDTC 2012 program

**Sunday, September 9**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:30 – 09:05</td>
<td><strong>Registration</strong>, Auditorium Zeger Van Hee in the College De Valk</td>
</tr>
<tr>
<td>09:05 – 09:15</td>
<td>Opening remarks</td>
</tr>
<tr>
<td>09:15 – 09:55</td>
<td><strong>Keynote Talk I</strong>, Chair: Sylvain Guilley</td>
</tr>
<tr>
<td>09:55 – 10:20</td>
<td>Techniques for EM Fault Injection: Equipments and Experimental Results</td>
</tr>
<tr>
<td>10:20 – 10:45</td>
<td>Circuit Simulation for Fault Sensitivity Analysis and its Application to Cryptographic LSI</td>
</tr>
<tr>
<td>10:45 – 11:10</td>
<td>Morning break</td>
</tr>
<tr>
<td>11:10 – 11:35</td>
<td>Session 1 – <strong>Fault Injection and Simulation</strong>, Chair: Kerstin Lemke-Rust</td>
</tr>
<tr>
<td>11:35 – 12:00</td>
<td>Electromagnetic Transient Faults Injection on a Hardware and Software Implementation of AES</td>
</tr>
<tr>
<td>12:00 – 12:25</td>
<td>Circuit Simulation for Fault Sensitivity Analysis and its Application to Cryptographic LSI</td>
</tr>
<tr>
<td>12:25 – 13:40</td>
<td>Lunch Alma Pauscollege</td>
</tr>
<tr>
<td>13:40 – 14:20</td>
<td><strong>Keynote Talk II</strong>, Chair: Helena Handschuh</td>
</tr>
<tr>
<td>14:20 – 14:45</td>
<td>Session 2 – <strong>Differential Fault Analysis</strong>, Chair: Francesco Regazzoni</td>
</tr>
<tr>
<td>14:45 – 15:10</td>
<td>Combined Fault and Side-Channel Attacks on the AES Key Schedule</td>
</tr>
<tr>
<td>15:10 – 15:35</td>
<td>Harnessing biased Faults in Attacks on ECC-based Signature Schemes</td>
</tr>
<tr>
<td>15:35 – 16:00</td>
<td><strong>Afternoon break</strong></td>
</tr>
<tr>
<td>16:00 – 16:25</td>
<td>Session 3 – <strong>Fault Analysis</strong>, Chair: Luca Breveglier</td>
</tr>
<tr>
<td>16:25 – 16:50</td>
<td>On the Need of Randomness in Fault Attack Countermeasures – Application to AES</td>
</tr>
<tr>
<td>16:50 – 17:00</td>
<td>Closing Remarks and Farewell</td>
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</tbody>
</table>

*FDTC 2012 program Sunday, September 9*
### 1.4 PROOFS 2012 program

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>8:15 - 9:00</td>
<td>Registration, Auditorium Zeger Van Hee in the College De Valk</td>
<td></td>
</tr>
<tr>
<td>9:00- 9:15</td>
<td>Opening - Welcome, presentation of PROOFS</td>
<td></td>
</tr>
<tr>
<td>9:15- 10:15</td>
<td>Invited talk</td>
<td>Understanding the reasons for the side-channel leakage is indispensable for secure design. Werner Schindler.</td>
</tr>
<tr>
<td>10:15-10:30</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>10:30 – 12:00</td>
<td>Contributed talks</td>
<td>A formal study of two physical countermeasures against side channel attacks, Sébastien Briais, Sylvain Guilley and Jean-Luc Danger.</td>
</tr>
<tr>
<td>12:00–13:30</td>
<td>Lunch, Alma Pauscollege</td>
<td></td>
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<tr>
<td>13:30-14:30</td>
<td>Invited talk</td>
<td>Toward Formal Design of Cryptographic Processors Based on Galois Field Arithmetic, Naofumi Homma.</td>
</tr>
<tr>
<td>14:30-15:00</td>
<td>Work in Progress (“WiP”) session</td>
<td></td>
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<tr>
<td>15:00-16:00</td>
<td>Invited talk</td>
<td>Analysing Cryptographic Hardware Interfaces with Tookan, Graham Steel.</td>
</tr>
<tr>
<td>16:00-16:15</td>
<td>Coffee break</td>
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<tr>
<td>16:15-16:45</td>
<td>Round-table and Q&amp;A with the audience</td>
<td></td>
</tr>
<tr>
<td>16:45- 16:50</td>
<td>Closing Remarks and Farewell</td>
<td></td>
</tr>
</tbody>
</table>
1.5 Important Buildings

1: Begijnhof Congreshotel Tervuursevest 70, Leuven
2: Ibis Hotel Brusselsestraat 52, Leuven
3: Mercure Leuven Center Alfons Smetsplein 7, Leuven
4: Novotel Vuurkruisenlaan 4, Leuven
A: CHES 2012: Auditorium Pieter De Somer, Deberiotstraat 24, Leuven
B: PROOFS and FDTC 2012: College De Valk, Tiensestraat 41, Leuven
C: Conference Dinner: Faculty Club Groot Begijnhof 14, Leuven
D: CHES Lunches: Salons Georges Hogeschoolplein 15, Leuven
F: PROOFS and FDTC Lunches: Alma Pauscollege, Hogeschoolplein 3, Leuven
The Conference venues
CHES 2012 will take place in

Auditorium Pieter De Somer
Deberiotstraat 24
Leuven

CHES Tutorials,
FTDC and PROOFS will take place in

College De Valk
Tienestraat 41

The two venues are 300m apart.

1.6 How to get to the building where CHES is held?
On foot: walking from the railway station (see map) takes about 15 minutes.
By bus: the main bus station is next to the railway station, but there are bus stops all over town. Bus number 2 direction Heverlee Campus has a stop called Zeelstraat. From here you only need to walk 500 meters to the conference venues. You may ask the driver if you have any doubt, most of them speak enough English to be able to help.
By Taxi: taxis are parked in front of the railway station (Martelarenplein). A taxi drive to the centre will take 2 minutes and will cost you approximately 10 euros.

1.7 Registration CHES
Registration is open on:

Sunday September 9th between 8.30-9.00
Auditorium Zeger Van Hee in the College De Valk, Tienestraat 41

Sunday September 9th between 18.00-21.00
Auditorium Pieter De Somer, Deberiotstraat 24

Monday September 10th between 8.00-8.45
Auditorium Pieter De Somer, Deberiotstraat 24

Tuesday September 11th between 8.45-9.00
Auditorium Pieter De Somer, Deberiotstraat 24

Wednesday September 12th between 8.45-9.00
Auditorium Pieter De Somer, Deberiotstraat 24

1.8 Registration FDTC
Sunday September 9th between 8.30-9.05
Auditorium Zeger Van Hee in the College De Valk, Tienestraat 41
1.9  Registration PROOFS
Thursday September 13th between 8.15-9.00
Auditorium Zeger Van Hee in the College De Valk, Tiensestraat 41

2  Social Events

2.1  Welcome Reception CHES
The welcome reception will be held on Sunday September 9th at 18.30 in the
Auditorium Pieter De Somer, Deberiotstraat 24, Leuven

2.2  Conference Lunches
Lunch will be organized on Monday, Tuesday and
Wednesday between 12.30 and 14.00.
Salons Georges, Hogeschoolplein 15, Leuven

Lunches on Sunday and Thursday for FDTC and
PROOFS will be organized in the Pauscollege.

Your conference badge is your entry ticket, please
bring it along!

2.3  Banquet at Faculty Club
CHES Banquet will be held on Tuesday September 12th
at 19.30 in Faculty Club, Begijnhof 14, Leuven

2.4  Walking Tour
There will be a walking tour on Monday, September 10th
departing at 16:30 from Auditorium Pieter De Somer,
Deberiotstraat 24. Groups of 30 participants per guide
will be made.

2.5  Brewery Visit
A visit to the Stella Artois Brewery will be organized on
Monday, September 10th. Buses depart from Auditorium
Pieter De Somer, Deberiotstraat 24. Group 1 leaves at 16:30 and group 2 at 17:30.

3  Information
For more information or any help, please contact the people
with the red T-shirts.
4 Internet connection

4.1 Internet in the conference room
You will have internet access in the Pieter De Somer Aula and De Valk through the wireless network. The necessary information will be provided on your conference badge which you will receive at the registration desk. Please don’t overload the network and use the internet access for e-mail reading only.

4.2 Internet Cafe
Spacebar, Naamsestraat 66, Leuven, opening 12:00-02:00.

5 Pubs in Leuven
There are close to 200 cafes and bars in Leuven. The most famous ones are located on the Oude Markt (Old Market Square).
http://www.leuven.com/oudemarkt/index.html

6 Tourism in Leuven
The city of Leuven has a very complete website with lots of practical and tourist information (http://www.leuven.be). The Leuven Tourist Office Leuven is situated in the Townhall Leuven, Naamsestraat 1, Leuven.

6.1 Five Highlights in Leuven
The following five historical sites are not to be missed during your stay in Leuven.

Grote Markt (Great Market Square)
The Grote Markt contains the City Hall, the Round Table and the Saint-Peter’s church.

Tradition has it that the first Town Hall of Leuven was situated on the Old Market Square. The second was located on the Great Market Square of Leuven. It had its place in a row of houses in front of St. Peter's Church, but outside the present building line. The construction of the present Town Hall started in 1439.

The Town Hall has three main stories, lined with pointed Gothic windows on the three sides visible from the Markt. At the angles of the roof are octagonal turrets pierced with slits allowing for the passage of light. Statues in canopied niches are distributed all over the building. The corbels supporting the statues are carved with Biblical scenes in high relief. While the niches and corbels are original with the building, the 236 statues themselves are relatively recent, dating from after 1850. Those of the first floor represent personages of importance in the local history of the city; those of the second, patron saints and symbolic figures; those of the third, the Counts of Leuven and Dukes of Brabant from various ages.

The main façade has an entrance staircase, and two portals in the center, above which are figures of Saint Peter (left) and Madonna and Child (right), the former in compliment to the patron of the church opposite.
The interior accommodates an interesting collection of artwork, including sculptures by Constantin Meunier and Jef Lambeaux. Inside can also be seen the portraits of the Leuven mayors since 1794.

The Saint-Peter's Church is the oldest in Leuven. It was presumably founded in 986. The first church burnt down in 1176. A new Romanesque church was built with a crypt, an extension, at the back of the choir. The Westwork was flanked by two towers as can be seen the old town seal.

http://www.leuven.be/

The Round Table (het Tafelrond) is situated on the east side of Great Market Square. The original building was erected by order of the Municipality in 1479. Strictly speaking it was three houses in one building. The various premises were let out to guilds, drama societies, etc. In 1817 the dilapidated building was pulled down and replaced by a construction in the Empire style. However, the name was kept. After this building had been burnt down in 1914, the National Bank decided in 1921 to reconstruct the original Gothic building. The statues in the niches represent the Governor and the Administrators of the National Bank and regional trades as well.

Leuven Town Hall can be visited every day at 15.00; Town Hall guided tour costs 2.00€.

Saint-Peter's Church is open Monday to Saturday: 10.00-16:45, Sun and public holidays: 14.00-16.45.

The Round Table is a private building and cannot be visited.

**Oude Markt (Old Market Square)**

Is known as the greatest bar of Western Europe. Find out for yourself!

**Begijnhof (Great Beguinage)**

Situated in the Schapenstraat. The faculty Club restaurant, where the conference dinner will be held, is located in the Beguinage. Take the opportunity to visit the entire site!
This 'Begijnhof', or 'garden of the Begijns', was founded in the 13th century outside the town wall of the time. The oldest houses date from the 16th century when the original houses were replaced by brick structures. The 72 houses are generally named after a saint or a Biblical event. The church, dedicated to St. John the Baptist, is early Gothic. The date of construction, 1305, is carved into the right buttress of the north portal. Approximately 300 'Begijns' lived in the 'Begijnhof' in the 17th century. The 'Begijns' or 'Beguines' were women who lived a religious life but kept their own property and supported themselves. They did not make perpetual vows. The movement was very strong throughout the Low Countries. The 'Begijnhof' was taken over by the Welfare Commission in 1925. Except for the church, it was sold to the University in 1962 under the condition that the entire complex was to be restored. A year later the Restoration began under the direction of Professor R. Lemaire. The 'Groot Begijnhof' is now a University residential quarter for students, professors, and employees of the University. Foreign guests are also housed here. There is room for 500 people. The Infirmary of the 'Begijnhof' has been converted into the Faculty Club, a place for the academic, scientific, administrative, and technical staff of the University to meet. The Chièvres Convent (Nr. 39) has been converted into a congress center. On 31th March 2000, it was officially recognised as an UNESCO World Heritage site.

Open: every day

**University Library**
Situated on the Monseigneur Ladeuzeplein 21.

During the first World War the University library, then houses in the University Hall, was destroyed by fire. A new library building, designed by Whithney Warren in Flemisch Renaissance Style and financed by American contributions, was built in 1921. Hundreds of carved stones have been incorporated in the building as reminders of numerous dotations. The central elevation includes busts of Queen Elizabeth, King Albert and Prince Leopold. At the top there is a bas-relief, depicting the fire of the University Hall. The side elevations include statues of the sedes sapientiae and Cardinal Mercier. The library houses more than three million volumes.

The library is open Monday-Thursday 9.00-20.00, Friday 9.00-17.00, Saturday 9.00-12.30
Arenberg Castle
Situated on Kardinaal Mercierlaan in Heverlee.

The site had been the castle of the lords of Heverlee since the 12th century, but this family became impoverished and had to sell the site in 1445 to the Croy family from Picardy. Willem van Croy added to the medieval castle, and donated the Celestine monastery in the castle grounds, now the campus library. Antoon van Croy demolished the medieval castle and completed the current castle in 1515 on the site of a medieval castle, of which he destroyed all but one tower. The architectural style is in large part traditionally Flemish, with sandstone window frames and brick walls, though it has been structurally altered since 1515 and has elements of Gothic, Renaissance and Neo Gothic architecture. Its large corner towers are typical, once surmounted by a German eagle. Charles III of Croy was the last duke, and after his death in 1612 without issue the castle passed to the Arenberg family into which his sister had married, and remained in that family until the First World War. The first manned gas-filled balloon flight in history took off from the front lawn of the castle on November 21, 1783; the balloonist was professor Jan Pieter Minckeleers. Even before the war, the former duke wanted to sell the castle and its grounds to the Catholic University of Leuven, for a reasonable price. However, the castle and park were instead seized by the Belgian government on the outbreak of war and thus it took until 1921 for the university to acquire them, becoming an expanded natural sciences and engineering campus in the style of that of an American university. It is still one of the main campuses of the University, providing facilities for most of the exact sciences. The castle itself is the main building of the Faculty of Engineering and is open to the public.

The castle can be visited only by appointment tel. + 32 (0) 16 32 40 07.
6.2  Short history of Leuven

Although the first references to the town can be traced back as far as the 9th century and in spite of its strategic location on the river Dyle, it was not until around the 11th-12th century that Leuven began to develop as an important trading centre within the Duchy of Brabant. It was at this time that its first town wall, churches, monasteries and abbeys were built.

The town's once flourishing cloth trade had fallen into decline by the 14th century, but a new golden age dawned with the 15th century. The university was founded, various industrial concerns flourished and the main market square with its fine Gothic town hall was laid out.

Its finely sculpted Town Hall and Saint Peter's church with its magnificent interior which is hung with the famous “Last Supper” by Thierry Bouts, are fine examples of flamboyant Gothic architecture at its best. Dating from the same period are the Cloth Hall, ‘t Sestich House and many churches, including St Gertrude's with its magnificent choir stalls. Other architectural styles are not quite so much in evidence, but they can still be found. The Romanesque Gate, the Saint Lambert's church and the remains of the first town walls are still clearly in evidence.

The 13th century beguinage complex has cobbled streets and fascinating 17th century houses. The Baroque style abounds in Leuven, from St Michael's church and the interior of the St John the Baptist's church to the unrivalled stucco of the Park Abbey. Both the Park Abbey and the Arenberg Castle are exciting mixtures of architectural styles.

The town still owes much of its character to the numerous university college buildings dating from the 16th and 17th centuries, many of which were renovated in the 18th century. The Van Dale College is pure Renaissance style and the College of the Falcon, Pope's College and the Arras College are neo-classical style. Vlierbeek Abbey is a fine example of this trend. The building of paved roads, the canal in the 18th century and the expansion of the brewery created a great impetus for trade and population growth. Unfortunately, this prosperity came to a sudden end under the reign of Joseph II when the French invaded.

The most significant development for Leuven in the 19th century was the building of the railway station and the construction of Bondgenotenlaan leading to it. The two World Wars in the 20th century destroyed much of Leuven and a great deal of the reconstruction work lasted well into the nineteen-sixties.

Leuven has developed into a well-equipped, modern town with a thriving service industry economy and with a good balance of old and new buildings combining to offer a well-designed infrastructure to suit the demands of today's modern town with a rich tradition.

On January 1st 1995, Leuven became the capital of the province Flemish Brabant. The former province of Brabant was split into Flemish and Walloon Brabant and the metropolitan region of Brussels.
6.3 About the KU Leuven

Situated at the heart of Western Europe, KU Leuven has been a centre of learning for almost six centuries. Founded in 1425 by Pope Martin V, KU Leuven bears the honor of being the oldest Catholic university in the world still in existence and the oldest university in the Low Countries.

In its early days this university was modeled on the universities of Paris, Cologne, and Vienna. In a short time it grew into one of the largest and most renowned universities in Europe. Its academic fame attracted numerous scholars who made valuable contributions to European culture. Allow us to enumerate a few renowned names. In the sixteenth century the humanist Desiderius Erasmus lectured here, where he founded the Collegium Trilingue in 1517 for the study of Hebrew, Latin, and Greek - the first of its kind. The tutor of the young emperor Charles V, Adriaan Cardinal Florensz of Utrecht, was a professor here before being elected in 1522 as the last non-Italian Pope before Pope John Paul II. The philologist, legal scholar, and historian Justus Lipsius taught here for many years. The mathematician Gemma Frisius helped to lay the foundations of modern science and tutored many famous scientists, including the cartographer Gerard Mercator, whose map projection is still in use, the botanist Rembert Dodoens, and the father of modern anatomy, Andreas Vesalius. In a later period, the theses of the Leuven theologian Cornelius Jansenius provoked huge controversy both inside and outside the Church. In the seventeenth and eighteenth centuries, KU Leuven was an important training centre for Roman Catholic intellectuals from Protestant countries. At the end of the Age of Enlightenment, in 1783, the chemist Pieter Jan Minckelers discovered the suitability of coal gas for lighting. In the nineteenth century, at the instigation of Pope Leo XIII, KU Leuven became an important centre of Thomist philosophy.

Not all has been trouble-free, though, in the university's illustrious history. It has had its share of difficulties during the various social and political upheavals in this region from the sixteenth to the nineteenth centuries. More recently, the two World Wars of the twentieth century deeply scarred the university. In 1914, the University Hall with its precious library was set in flames and 300,000 books were reduced to ashes. Afterwards, an international solidarity campaign with a major American contribution helped construct a new library on the present Ladeuzeplein. Unfortunately this library was burned down in 1940 during the Second World War and this time only 15,000 of its 900,000 volumes were saved. Since then, the university library, and in fact the entire university, has undergone a thorough reconstruction.

The University is located in Flanders, the Dutch-speaking northern part of Belgium. With the Dutch language's steady rise to renewed prominence, the university was eventually split in 1968 into two new universities. The French-speaking Université Catholique de Louvain moved to the newly built campus in Louvain-la-Neuve. The Dutch-speaking Katholieke Universiteit Leuven remained in the historic town of Leuven.
7 Some restaurant suggestions in Leuven
If you are looking for some nice restaurants in Leuven, you will be happy to find some delicious recommendations below.

7.1 Belgian-French Cuisine

Arenberg
Address: Kapeldreef 46, Heverlee
Type: Belgian-French cuisine
Price: 60-100€
Website: http://www.restaurantarenberg.be/
Comments: Excellent restaurant that has only recently lost its Michelin star. You need a reservation (+32 (0)16 22 47 75) and a taxi to get there (about 2 km away). Three-course menu is an excellent value at 45 EUR (without drinks); served for lunch and during some evenings. Closed on Sundays and Mondays.

Couvert Couvert
Address: Sint-Jansbergsesteenweg 171, Heverlee
Type: Belgian-French cuisine
Price: 60-100€
Website: http://www.couvertcouvert.be/
Comments: With one Michelin star the best restaurant of the city. You need a reservation (+32 (0)16 29 69 79) and a taxi to get there (about 2 km away). Three-course lunch is an excellent value at 35 EUR (without drinks). Closed on Sundays and Mondays.

D’Artagnan
Address: Naamsestraat 72, Leuven
Type: Belgian-French cuisine
Price: 40-80€
Website: http://www.restaurantdartagnan.be/nl/home/
Comments: Excellent cuisine. Closed on Saturday Lunch, Sundays and Mondays.

De Clijne Tafel
Address: Naamsestraat 47, Leuven
Type: Traditional cuisine
Price: Below 30€
Comments: Cosy restaurant with a wide range of traditional dishes. Open every day.

De Wiering
Address: Wieringstraat 2, Leuven
Type: Brasserie (combination of a bar and a restaurant), typically Belgian kitchen
Price: Below 25€
Website: http://www.dewiering.be/
Comments: De Wiering offers typically Belgian meals in an informal setting. The kitchen is open every day of the week from 12 am to 11 pm. Most in demand are the spare ribs, which are offered with ten different types of seasonings. Over 75 types of beer are available to accompany your meal, including Leffe on tap. Menus are available in Dutch, French and English. De Wiering is often quite crowded.
Het Land aan de Overkant
Address: Leon Schreursvest 85, 3001 Leuven, tel. +32 (0)16 22 61 81
Type: Traditional cuisine, nice fish dishes.
Website: www.hetlandaandeoverkant.be
Price: 60-80€
Comments: Delicious menu formulas. Known for its wonderful fish dishes. Closed on Sunday and Monday Lunch and Saturday Lunch.

Zarza
Address: Zarza, Bondgenotenlaan 92, Leuven, tel +32 (0)16 20 50 05
Type: Belgian-French cuisine
Price: 50-70€
Website: www.zarza.be
Comments: Nice restaurant in the heart of the city. Beautifully presented and delicious dishes. Closed on Sundays.

7.2 International Cuisine

Cantina del Coronel
Address: Parijsstraat 40, Leuven
Type: Latin-American cooking
Price: Below 30€
Website: http://www.lacantina.be/
Comments: Lively atmosphere, nice food and delicious margaritas.
Open every day, except Sunday Lunch

Chop-Shoy
Address: Brusselsestraat 45, tel. +32 (0) 16 22 00 04
Type: Chinese cuisine, Price 15-30€

La Cucaracha
Address: Tiensestraat 21, Leuven
Type: Mexican Cuisine
Price: 25-40€
Comments: For spicy and less spicy Mexican dishes!

O Fado
Address: Parijsstraat 49, Leuven
Type: Portuguese cuisine
Price: 40-60€
Comments: Open 7/7. Great Portuguese restaurant with fish and meat specialities.

The Meating Room
Address: Oude Markt 12, Leuven
Type: Grill/Steak house
Price: 25-40€
Website: http://www.meatingroom.be/
Toeareg
Address: Parijsstraat 37, Leuven
Type: Moroccan/African Cuisine
Price: 25-40€
Website: www.toeareg.be
Comments: Open every day. Very nice atmosphere.

7.3 Italian Cuisine

Il Giardino d’Inverno
Address: Parijsstraat 84, Leuven, tel 016/20 43 07
Price: Below 50€
Website: http://www.ilgiardinodinverno.com/
Comments: Real Italian pastas, friendly service. Closed on Saturday Lunch and Mondays.

La Stanza
Address: Wandelingenstraat 8, Leuven, tel. 016 50 30 66
Price: Below 40€
Comments: Great Italian restaurant. Closed on Sundays, Mondays and Saturday Lunch.

Mangia e Via
Address: Parkstraat 66, Leuven, tel + 32 (0)16 29 08 30
Price: 15-25€
Comments: Cosy and delicious place with great pizza. Closed Sunday lunch and Saturday Lunch.

Quo Vadis
Address: Muntstraat 11, Leuven, tel. + 32 (0)16 29 06 87
Price: Below 30€
Comments: Closed on Sundays and Mondays. No nonsense pizzeria.

7.4 Vegetarian restaurants

Greenway
Address: Parijsstraat 12, Leuven, tel + 32 (0)16 30 97 35
Price: Below 20€
Website: http://www.greenway.be/
Comments: Great veggie snacks. Closed on Sundays.

Lukemieke
Address: Vlamingenstraat 55, Leuven, tel. + 32 (0)16 22 97 05
Price: Below 25€
Website: http://www.lukemieke.be/
Comments: Perfect lunch restaurant. Healthy, nice food and lovely desserts.
7.5 *Some suggestions*
If you stroll down the *Muntstraat* or the *Parijsstraat*, you will definitely find a restaurant you cannot resist…

8 *Belgian Chocolate*
- **Raets-Putseys**, Bondgenotenlaan 85, Leuven
- **Delvaux Chocolaterie**, Naamsesteenweg 115, Heverlee
- **Godiva**, Brusselsestraat 53, Leuven
- **Quetzal (Chocolate Bar)**, Alfons Smetsplein 3, Leuven
- **Neuhaus**, Bondgenotenlaan 13A, Leuven
- **Think Chocolate!**, L. Vanderkelenstraat 41 – 43, Leuven
- **Demeestere**, Naamsesteenweg 288, Leuven

9 *Useful phone numbers and addresses*

9.1 *Taxis*
- **Cordons-Van Minsel BVBA**
  Hoveniersdreef 31, 3001 Leuven (Heverlee), +32 16 22 20 00, Mobile phone: +32 475 24 24 00 /+32 495 22 20 00, Fax 016 22 20 22, E-mail: taxicordons@skynet.be
- **Taxi Alex**
  Bierbeekstraat 116, 3001 Leuven (Heverlee), +32 16 29 16 16 / Mobile phone: +32 475 72 06 66
- **Taxi's Jenny NV**
  Diestsesteenweg 489, 3010 Leuven (Kessel-Lo), +32 16 25 35 65 / +32 16 26 10 10, Fax: 016 25 43 26
- **Taxi Gerard**
  Wipstraat 27, 3010 Leuven (Kessel-Lo), +32 16 25 09 99, Fax +32 16 25 25 98

9.2 *Doctors*
These doctors are randomly picked from 2 different places in Leuven and Heverlee.
- Lauweryns B., Herbert Hooverplein 24, Leuven, +32 16 22 95 36
- Riestra J., Herbert Hooverplein 24, Leuven, +32 16 22 95 36
- General Practitioners medical centre “Van ’t Sestic”, Van ’t Sestichstraat 8, Leuven - Tel: 016/ 23.91.45
- Van Heukelom J., Kardinaal Mercierlaan 8, Heverlee, +32 16 20 48 56
- Ostyn M., Kardinaal Mercierlaan 99, Heverlee, +32 16 22 43 90
- Demoulin A., Kardinaal Mercierlaan 78, Heverlee, +32 16 40 40 94

To find out which doctor is on duty at night or during the weekends: +32 70 25 70 25
9.3 **Pharmacies**
- De Bond NV, Bondgenotenlaan 163, Leuven, +32 16 22 45 21
- Juste-Lipse BVBA, Bondgenotenlaan 88, Leuven, +32 16 22 23 37
- Kerre B, Naamsesteenweg 160, Heverlee, +32 16 22 51 75
- Jacobs R, Naamsesteenweg 224, Heverlee, +32 16 40 50 64

To find out which pharmacy is on duty at night or at weekends:
- central infonenumber: tel. +32 900 105 00
- www.apotheek.be
- after 22.00h: tel. +32 16 21 06 11

9.4 **Phone numbers of the organizers**
- Péla Noë (Secretary) +32 16 32 10 50
- COSIC cell phone +32 471 49 74 20

9.5 **Emergency numbers**

**Urgent cases only!!**
- Police very urgent 101
- Medical emergency service 100
- Fire brigade 100
- Belgian Red Cross 105
- International emergency GSM number 112

**Other useful numbers**
- Burn centre +32 2 268 62 00
- Antidote centre +32 70 245 245
- Police Leuven +32 16 21 06 11
- University hospital UZ Leuven
  - General +32 16 33 22 11
  - Emergency cases +32 16 34 39 00
- Campus UZ Gasthuisberg, Herestraat 49, Leuven
- Campus UZ Sint-Rafael, Kapucijnenvoer 33, Leuven
- Campus UZ Sint-Pieter, Brusselsestraat 69, Leuven
- H. Hart hospital
  - General +32 16 20 92 11
  - Emergency cases +32 16 20 92 80
- Regionaal ziekenhuis H. Hart Leuven, Naamsestraat 105, Leuven

9.6 **Grocery shopping**
- Carrefour Express Leuven, Naamsestraat 48, Leuven
- Match Bondgenotenlaan 58, Leuven
- Carrefour Express Leuven, Tiensevest 10, Leuven
- Carrefour Express Leuven, Brusselsestraat 60, Leuven
- AD Delhaize Leuven, Brusselsestraat 31, Leuven
- Delhaize Heverlee, Tervuursevest 19, Heverlee