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<tr>
<th>Time</th>
<th>Pre-meeting educational Sessions</th>
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<tr>
<td>9:00</td>
<td>Tumor Biology/Physiology - a basic introduction</td>
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<td>Peter Vaupel - Dom</td>
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<td>Drug Delivery: US and Nanocarriers</td>
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<td>Twan Lammers - Dom</td>
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<td>9:50</td>
<td>MR-LINAC and/or MR-HIFU: a view from the clinic</td>
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<td>Marco van Vulpen - Dom</td>
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<td>10:15</td>
<td>Coffee Break</td>
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<td>10:45</td>
<td>Abdominal</td>
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<tr>
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<td>Franco Orsi</td>
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<td>11:05</td>
<td>Novel Applications</td>
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<td>Holger Gruell</td>
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<td>Cavitation for clinicians</td>
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<td>Michel Versluis</td>
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<td>Vera Khoklova</td>
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<td>Young-sun Kim</td>
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<td>Thermometry &amp; Treatment Monitoring</td>
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<td>Kim Butts-Pauly</td>
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<td>HIFU in the Brain</td>
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<td>Jean-Francois Aubry</td>
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<td>Modeling &amp; Treatment Planning</td>
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<td>Nader Saffari</td>
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<td>Unmet clinical challenges for the therapy ultrasound scientist to tackle</td>
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<td>Wladyslaw Gedroyc - Dom</td>
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<td>Unrecognised Technical potential – what more can US offer the medical doctor?</td>
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<td>Pain Palliation &amp; Bone</td>
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<td>Mark Hurwitz</td>
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<td>Mixed Modalities: US+RT; US+CT</td>
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<td>Heating for clinicians</td>
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<td>Brian Fowlkes</td>
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<td>Geertjan van Tienhoven</td>
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<td>17:30</td>
<td>Sonoporation</td>
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<td>Nico de Jong</td>
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<td>18:00</td>
<td>Adjournment</td>
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<tr>
<td>19:30</td>
<td>Reception at Winkel van Sinkel</td>
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<td>(Oudegracht 158)</td>
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<td>8:30</td>
<td>Opening of ISTU 2015 - Dom</td>
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<td>Plenary Lecture - Ernst Martin - Dom&lt;br&gt;<em>MRI-guided focused ultrasound in the human brain</em></td>
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<td>Plenary Lecture - Gosse Adema - Dom&lt;br&gt;<em>Towards in situ cancer vaccines: tumor ablation plus immune activation for local and systemic tumor control</em></td>
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<td>Ferenc Jolesz Memorial - Nathan McDannold - Dom</td>
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<td>Clinical Applications Aula&lt;br&gt;Modeling &amp; Physics Dom</td>
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<td><strong>Poster Session 1 (posters 1-30)</strong></td>
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<td>Sonoporation &amp; Nanoparticles Aula&lt;br&gt;Thermal Ablation Dom</td>
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<td>Nanotechnologies &amp; Drug Delivery Aula&lt;br&gt;US-based &amp; Other Therapy Guidance Dom</td>
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<td>Announcement of 2015 Fry &amp; Lizzy Award Winners - Dom</td>
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<td>2014 Lizzy Award Lecture - Joo Ha Hwang - Dom</td>
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<td><em>HIFU vascular bioeffects to enhanced drug delivery – A serendipitous journey</em></td>
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<td>2014 Fry Award Lecture - Larry Crum - Dom</td>
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<td>Hardware &amp; Systems Development - Dom</td>
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<td>Gala Dinner at Polman's Huis (At the corner of Jansdam &amp; Keistraat 2)</td>
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<td>Plenary Lecture - <em>Ine Lentacker</em> - Dom</td>
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<td><em>Sonoporation with nanoparticle loaded microbubbles: concept, mechanism and application in cancer immunotherapy</em></td>
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<td>The Best of ISTU 2015, Student Award Competition - Dom</td>
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<td>Plenary Lecture - <em>Shy Shoham</em> - Dom</td>
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<td><em>Neuromodulation with Focused Ultrasound</em></td>
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<td>Announcement Student Award Winner and Closing Remarks - Dom</td>
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<td>WAVE3D: A PARALLELISED THREE-DIMENSIONAL NONLINEAR ACOUSTIC WAVE PROPAGATION SOLVER</td>
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<td>FAST 2D AND 3D PASSIVE ACOUSTIC MAPPING WITH ANGULAR SPECTRUM APPROACH</td>
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<td>CAVITATION: A STUDY OF THE INFLUENCE OF PEAK POSITIVE PRESSURE</td>
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<td>VERIFICATION AND VALIDATION OF ACOUSTIC MODELING: A NOVEL GAMMA-METHOD AND UNCERTAINTY BUDGET-BASED APPROACH TO ASSESS PRESSURE DISTRIBUTIONS</td>
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<td>Thurs 16-4</td>
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<td>19</td>
<td>NEW MECHANISTIC FINDINGS ON SONOPORATION: IMMEDIATE CELLULAR ACTION AT THE PERFORATION SITE</td>
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<td>ULTRASOUND AND MICROBUBBLE MEDIATED DRUG DELIVERY: REAL-TIME IMAGING OF CO-ADMINISTRATION VS DRUG LOADED MICROBUBBLES</td>
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<td>THERAPEUTIC EFFECTS OF MILLISECOND-PULSE CONDITIONS FOR ULTRASOUND-MEDIATED GENE DELIVERY</td>
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<td>UNSEEDED INERTIAL CAVITATION FOR ENHANCING THE DELIVERY OF CHEMOTHERAPIES: A SAFETY STUDY</td>
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<td>IMPACT OF THE ACOUSTIC PRESSURE ON THE UPTAKE KINETICS OF SYTOX GREEN MODEL DRUG IN SONOPERMEABILIZATION</td>
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<td>IMAGE-GUIDED SONOPORATION IN AN EX-VIVO MACHINE PERFUSED PORCINE LIVER</td>
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<td>THE INFLUENCE OF BINDING ON THE ACOUSTICAL RESPONSE OF TARGETED MICROBUBBLES</td>
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<td>CHARACTERIZATION OF CAVITATION DYNAMICS FROM NANO-SCALE CAVITATION AGENTS DURING DRUG DELIVERY IN-VIVO USING COMBINED B-MODE GUIDANCE AND REAL-TIME PASSIVE ACOUSTIC MAPPING</td>
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<td>DRUG DELIVERY OF NON-ENCAPSULATED DRUGS BY LOW INTENSITY ULTRASOUND: INVOLVEMENT OF CLATHRIN-MEDIATED ENDOCYTOSIS.</td>
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<td>SAFETY AND EFFICACY OF RENAL SYMPATHTETIC DENERVATION IN A PORCINE MODEL</td>
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<td>HYPERTHERMIA MEDIATED DRUG DELIVERY COMBINED WITH ABLATION IMPROVES THERAPEUTIC EFFICACY OF MR-HIFU THERMAL THERAPY</td>
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<td>EVALUATING MRGHIFU ABLATION OF THE LUMBAR MEDIAL BRANCH NERVE IN AN ACUTE SWINE MODEL</td>
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<td>SPONTANEOUS BREATHING VS MECHANICAL VENTILATION FOR RESPIRATORY-GATED MR-HIFU ABLATION IN THE LIVER</td>
<td>van Breugel, Johanna</td>
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<td>MOTION-TRIGGERED lesION FORMATION IN RATS LIVER IN VIVO</td>
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<td>HIGH INTENSITY FOCUSED ULTRASOUND APPLIED TO THE PLACENTAL UNIT: PRELIMINARY RESULTS OF AN IN VIVO STUDY IN MONKEYS</td>
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<td>THERMAL ABLATION OF A CONFLUENT LESION IN THE PORCINE KIDNEY WITH MAGNETIC RESONANCE GUIDED HIGH INTENSITY FOCUSED ULTRASOUND</td>
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<td>NON-INVASIVE ABLATION OF RABBIT FETAL AND PLACENTAL TARGETS USING MAGNETIC RESONANCE GUIDED HIGH INTENSITY FOCUSED ULTRASOUND</td>
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<td>INFLUENCES OF BLOOD FLOW ON HIFU-INDUCED COAGULATION NECROSIS IN PERFUSED PORCINE LIVER</td>
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<td>BUBBLE DYNAMICS OF INERTIAL CAVITATION FROM NANOPARTICLES</td>
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<td>A TISSUE-MIMICKING MODEL FOR ASSESSMENT OF DRUG PENETRATION BY ULTRASOUND-MEDIATED DRUG DELIVERY</td>
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<td>SONOPORATION FOR LOCAL AND TARGETED DELIVERY OF A THERAPEUTIC ANTIBODY IN COLORECTAL CANCER: IN-VIVO PROOF OF CONCEPT</td>
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<td>MR-HIFU HYPERTHERMIA FOR DRUG DELIVERY: HEATING QUALITY IN RABBIT VX2 TUMORS</td>
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<td>THE EFFECT OF MICROBUBBLE SHELL PHYSICOCHEMICAL PROPERTIES ON FOCUSED ULTRASOUND-INDUCED BLOOD-BRAIN BARRIER OPENING</td>
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<td>CHARACTERIZATION OF MECHANICAL PROPERTIES OF HYBRID CONTRAST AGENTS WITH IMPROVED ACCURACY</td>
<td>Tu, Juan</td>
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<td>43</td>
<td>LOCAL DRUG DELIVERY AND ENHANCED UPTAKE EFFECTS OF ACOUSTIC CLUSTER THERAPY – ACT: A PRE-Clinical STUDY.</td>
<td>van Wamel, Annemieke</td>
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<td>CAVITATION-ASSISTED TRANSDERMAL VACCINE DELIVERY USING A NANOSCALE-NUCLEATION AGENT FOR GENERATION OF ANTI-OVA ANTIBODIES IN MICE</td>
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<td>ELIMINATION OF MULTIDRUG-RESISTANT PROSTATE CANCER CELLS USING COMBINATION OF HIGH-INTENSITY FOCUSED ULTRASOUND AND LOW-DOSE GENERIC CHEMOTHERAPEUTIC</td>
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**US-based & Other Therapy Guidance - Moderators: Cyril Lafon & Elisa Konofagou**

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<td>FEASIBILITY OF SHEAR-WAVE ELASTOGRAPHY FOR EVALUATION OF CARDIAC TRANSESOPHAGEAL HIFU ABLATION</td>
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<td>HARMONIC MOTION IMAGING FOR DETECTION AND FOCUSED ULTRASOUND ABLATION MONITORING OF EX VIVO HUMAN BREAST TUMORS</td>
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<td>REAL-TIME COAGULATION SIZE CONTROL SYSTEM BASED ON SIZE ESTIMSTION WITH LOCALIZED MOTION IMAGING AND MULTIPLE MODULATION FREQUENCIES TO ACHIEVE HIGHER SPATIAL RESOLUTION</td>
<td>Azuma, Takashi</td>
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<td>ADAPTIVE Lesion FORMATION IN VIVO USING DUAL MODE ULTRASOUND ARRAY SYSTEM</td>
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