SEN Symposium

December 3rd, 2014
Amsterdam

http://www.sen-symposium.nl

#sensym2014
What is Software Engineering?
Normative Perspectives

• SE is **Engineering** - measurable, predictive, trusted

• SE is **Mathematics** - correct, fundamental, elegant

• SE is a **Science** - methodical, discovery, truth

• SE is a **Business** - economical, risk, value

• SE is a **Craft** - qualitative, ethical, pride

• SE is an **Art** - surprising, reflective, beautiful

• SE is a **Game** - complex, competitive, fun
Wicked Problem

security
privacy
robustness
maintainability
usability
efficiency
energy
scalability

requirements
architecture
design
testing
construction
evolution
configuration
deployment

[link to Wikipedia page on wicked problem]
Software Engineering is the application of scientific, economic, social, and practical knowledge in order to invent, design, build, maintain, and improve Software.
Why are we together?
Software is not the supporting act (anymore)
Software Society

• We have *impact*
  • but we need to be *more visible*

• We have *responsibility*
  • but we need to be *heard more*

• We have professional *networks*
  • but we need to *work together* more
SEN Symposium

- Yearly
- Inclusive
- Excellent speakers
- Topical posters
- Discussion
- Networking
Agenda

- Speaker pairs entertain for 25 minutes each
- Audience + speakers discuss for 15 minutes
- Posters are presented during {breaks, lunch, reception}
- Twitter tag #sensym2014
- {Red, green} cards to signal {disagreement, agreement}
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>08:30-09:15</td>
<td>Doors open</td>
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<tr>
<td>09:15-09:30</td>
<td>Jos Baeten, Frank de Boer, Jurgen Vinju</td>
<td>Welcome</td>
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<tr>
<td>09:30-10:45</td>
<td>Paul Klint Paris Avgeriou</td>
<td>The Revenge of the Coroutines</td>
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<td>Technical Debt: looking for new solutions for an old problem</td>
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<td>10:45-11:00</td>
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<td>Coffee break</td>
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<tr>
<td>11:00-12:15</td>
<td>Jaco van de Pol Patricia Lago</td>
<td>Power optimisation for multi-processor dataflow applications</td>
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<td>Software with Energy</td>
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<td>12:15-13:15</td>
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<td>Lunch</td>
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<td>13:15-14:30</td>
<td>Eelco Visser Sjaak Brinkkemper</td>
<td>A Language Designer's Workbench</td>
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<td>Software Production: fundamental research for the software society</td>
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<td>14:30-14:45</td>
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<td>Coffee break</td>
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<tr>
<td>14:45-16:00</td>
<td>Farhad Arbab Mark van den Brand</td>
<td>Composition of Concurrency</td>
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<td>Model Driven Engineering and Functional Safety</td>
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<td>16:00-16:15</td>
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<td>Coffee break</td>
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<td>16:15-17:00</td>
<td>Erik Meijer</td>
<td>Contravariance is the Dual of Covariance Implies Iterable is the Dual of Observable (Making Money Using Math)</td>
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<td>17:00-18:00</td>
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<td>Reception</td>
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