Contract Languages:
Expressiveness, Abstraction, Interoperability, and Applications

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www.lorentzcenter.nl/contract-languages
Monday (Expressiveness)

09:30 - 10:00  Registration and Coffee
10:00 - 12:00  Welcome, Introduction of Participants and Poster Pitches
12:00 - 14:00  Lunch and Poster Session
14:00 - 15:00  Alessandro Cimatti: Contracts and Expressiveness
15:00 - 15:30  Discussion: Workshop aims and Initial Breakout Groups
15:30 - 16:00  Coffee Break
16:00 - 17:00  Short Talks
   Reiner Hähnle: An Expressive Trace Logic for Imperative Programs
   Eduard Kamburjan: A Hoare Logic for Domain Specification
   David Cok: Invariants in JML
17:00 - 17:30  Discussion: Workshop aims and Initial Breakout Groups
17:30 -        Welcome Reception (Wine and Cheese) and Poster Session
Tuesday (Expressiveness/Abstraction)

9:00 - 11:00 Breakout Groups (Expressiveness) Coffee Break at 10:00
Contracts and Abstraction (Philipp Ruemmer)

11:00 - 12:00 Reports from Breakout Groups and Regrouping
Group Picture

12:00 - 14:00 Lunch

14:00 - 15:00 Short Talks
Kristin Yvonne Rozier: From English Assume-Guarantee Contracts to Validated Temporal Logic Specifications
Andrei Paskevich: Coma – an intermediate verification language with explicit abstraction barriers
Mario Pereira: GOSPEL – A tool-agnostic formal specification language for OCaml

15:00 - 17:00 Breakout Groups (Abstraction) Coffee Break at 15:30

17:00 - 17:30 Reports from Breakout Groups and Regrouping

18:45- Workshop Dinner in Katwijk
Wednesday (Interoperability)

9:00 - 10:00  Marie-Christine Jakobs: Interoperability of Contracts
10:00 - 10:30 Coffee Break
10:30 - 11:30 Short Talks
  Bernhard Beckert: The Notions of Consistency and Semantic Overlap
  Florian Lanzinger: Types as Contracts
  Wolfgang Ahrendt: Neuro-symbolic methods for automated specification generation
11:30 - 12:00 Breakout Groups Regrouping
12:00 - 14:00 Lunch
  14:30 - Treasure Hunt, Boat Trip and Workshop Dinner
Thursday (Applications)

9:00 - 10:00  Breakout groups (Interoperability)
10:00 - 10:30  Coffee Break
10:30 - 11:00  Reports from Breakout Groups
11:00 - 12:00  Nikolai Kosmatov: Applications of Contracts
12:00 - 14:00  Lunch
14:00 - 15:30  Short Talks
   Marco Eilers: Resource-Based Specifications for Smart Contracts
   Inigo Incer: Towards Provably Safe and Secure Systems with Contract-Based Design
   Mattias Ulbrich: Contract Machines
   Gerardo Schneider: On the specification and analysis of normative documents
15:30 - 16:00  Coffee Break
16:00 - 17:30  Breakout Groups (Applications and Case Studies)
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 - 10:00</td>
<td>Reports from Breakout Groups</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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<td>10:30 - 12:00</td>
<td>Key Insights and Future Plans</td>
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<td>12:00 - 14:00</td>
<td>Lunch (optional)</td>
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Shared notes (google doc): https://shorturl.at/bdHOP
Welcome Schedule Social Events

Social Events

- **Monday:** Welcome Reception (Wine and Cheese) and Poster session
  starts at 17:30 here in the Lorentz center

- **Tuesday:** Workshop Dinner in Katwijk
  Please get there on your own (by bike, bus or share a ride by car)
  Restaurant Zilt Katwijk is booked at 18:45

- **Wednesday:** Treasure Hunt and Dinner Boat Trip at the Kager lakes
  the treasure hunt starts at 14:30 in front of the central station (city center side),
  the bus also leaves from there (next to the IBIS hotel) at 17:00
  The boat trip takes three hours from 17:30 to 20:30.
  The bus will stop at Hotel, Train Station and Lorentz Center on the way back.