

Robot Kit Building and Competition

Instructors

Schedule

Mission

Some notices

Team assembling

Design review presentation



Robot Kit Building: Instructors

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Robot Kit Building

Schedule

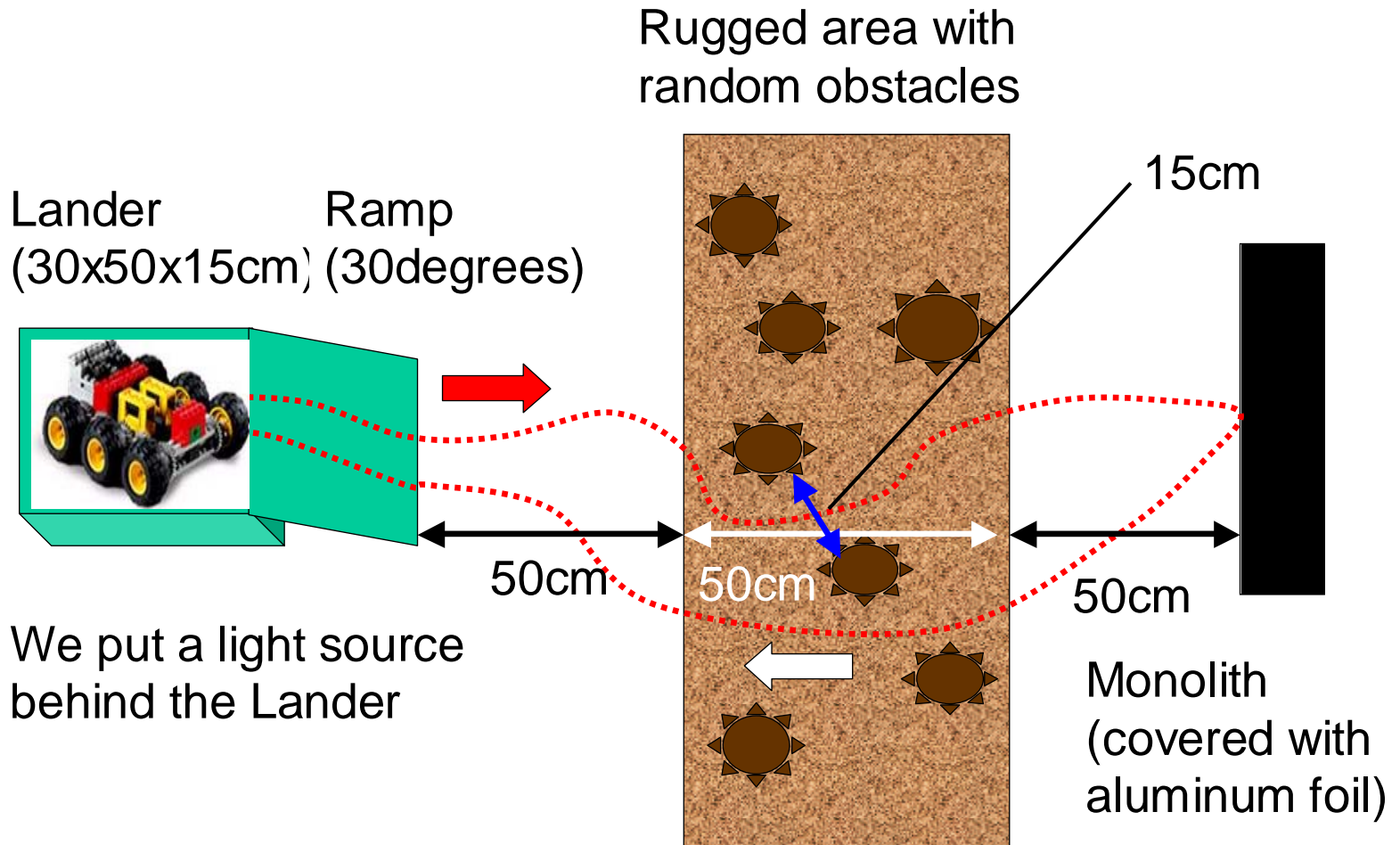
**Aug. 6: Briefing, Team assembling,
Concept discussion, Design Review**

**Aug. 9: Competition (final presentation)
starts at: 2:00pm**



Robot building: in Computer Lab
Final Competition: 1st floor of
Build. 17 (under the spacecraft)

Robot Kit Building: Mission



Robot Kit Building: Goals and Rules

- **Successful locomotion down the ramp: +15p**
- **Successful negotiation with obstacles: +15p**
- **Successful contact with Monolith: +15p**
- **Successful turn around: +15p**
- **Successful return to Lander: +20p**
- **Successful climbing up the ramp: +20p**
- **Not passing through the rugged area - 10p**
- **Human operation: - 20p**
- **Rescue by Astronauts: - 50p**

Some important hints and notices

- You need a good design of chassis for high mobility.
- You need software to control the robot. (work on PC)

Note: RCX Command Center (RCC) c-like software package is available from

**<http://www.cs.ruu.nl/people/markov/lego/index.html>
and other program sources may be used.**

- You need sensory feedback for autonomous navigation and control.
- **Robot building must be done in the designated area in the Computer Lab.**
- **Be careful for not losing the parts. Most of them are very tiny. Please do not to mix up the parts among different groups.**
- **Do not bring the Lego stuff out from the lab.**