

→ SERESSA 2018 program

Technical program



Mon 12/11

Tue 13/11

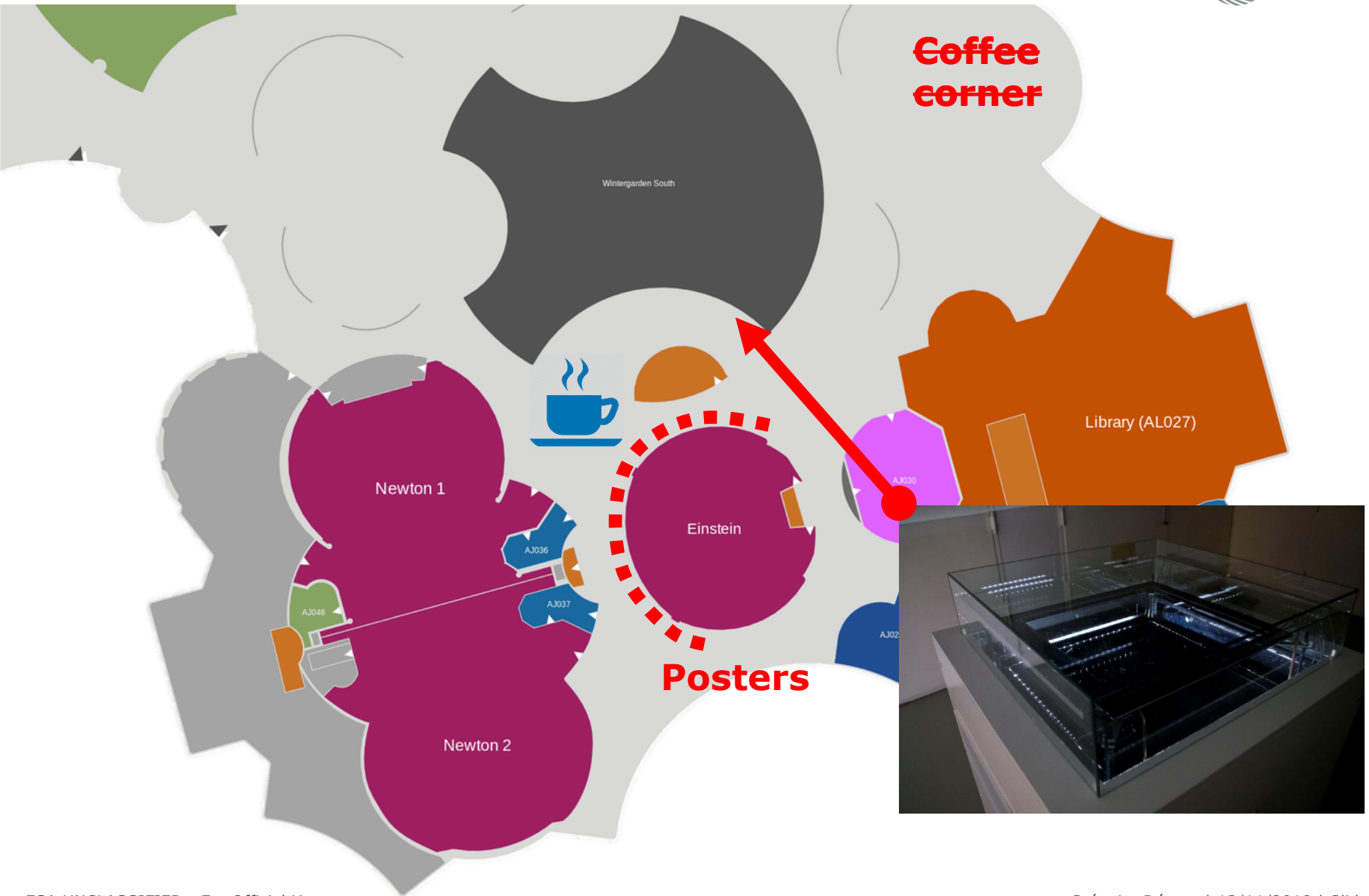
Wed 14/11

Thu 15/11

Fri 16/11

Registration		Registration		Registration		Registration	
Newton 1-2, ESA/ESTEC 08:00 - 09:00		Newton 1-2, ESA/ESTEC 08:00 - 09:30		Newton 1-2, ESA/ESTEC 09:00 - 09:30		Newton 1-2, ESA/ESTEC 09:00 - 09:30	
Opening speeches and program overview Dr Raoul Velazco		Radiation Effects Hardness Assurance for space mission Dr Stephen Buchner		Mitigation in ASICs and FPGAs Mr Agustín Fernández-León		Laser Testing: Laser Simulation Test Possibilities and Facilities Dale McMorris	
Space Environments Dr Hugh Evans		Newton 1-2, ESA/ESTEC 09:30 - 10:30		Newton 1-2, ESA/ESTEC 09:30 - 10:30		Newton 1-2, ESA/ESTEC 09:30 - 10:30	
Newton 1-2, ESA/ESTEC 09:30 - 10:30		Coffee and posters Foyer, ESA/ESTEC		Coffee and posters Foyer, ESA/ESTEC		Coffee and posters Foyer, ESA/ESTEC	
TID and TNID Mr Christian POIVET		System Hardening and Real Applications Mr Michel Pignol		New Developments in FPGA: SEUs and Fail-Safe Strategies Mrs Melanie Berg		Automotive safety challenges based on AEC Q100 / ISO 26262 Sung Chung	
Newton 1-2, ESA/ESTEC 11:00 - 12:15		Newton 1-2, ESA/ESTEC 11:00 - 12:00		Newton 1-2, ESA/ESTEC 11:00 - 12:00		Newton 1-2, ESA/ESTEC 11:00 - 12:00	
Single Event Effects (SEE): Mechanisms and Classifications Dr Stephen Buchner		Newton 1-2, ESA/ESTEC 12:00 - 13:00		Newton 1-2, ESA/ESTEC 12:00 - 13:00		Newton 1-2, ESA/ESTEC 12:00 - 13:00	
Newton 1-2, ESA/ESTEC 12:15 - 13:15		Newton 1-2, ESA/ESTEC 13:00 - 14:30		Newton 1-2, ESA/ESTEC 13:00 - 14:30		Newton 1-2, ESA/ESTEC 13:00 - 14:30	
Lunch		Newton 1-2, ESA/ESTEC 13:00 - 14:30		Newton 1-2, ESA/ESTEC 13:00 - 14:30		Newton 1-2, ESA/ESTEC 13:00 - 14:30	
Restaurant/Lunchpad/ESCAPE, ESA/ESTEC 13:15 - 14:30		Accurate Abstraction and High Level Modeling and Validation of SEE in Electronic Systems Dr Osmine Alt Mohamed		Microprocessor testing: characterization tests, mitigation Heather Quinn		Solar Cells Dr José Ramón González et al.	
Single Event Effects Test Methods Dr Konstantin Tapero		Newton 1-2, ESA/ESTEC 14:30 - 15:30		Newton 1-2, ESA/ESTEC 14:30 - 15:30		Newton 1-2, ESA/ESTEC 14:30 - 15:30	
Newton 1-2, ESA/ESTEC 14:30 - 15:30		Fault Injection Methodologies Prof. Luis Entrena Arantes		Multi and Many core Processors: Fault tolerance and Radiation tests Prof. Pablo Ramos et al.		ESTEC High Bay and test rooms visit	
Coffee and posters Foyer, ESA/ESTEC		Newton 1-2, ESA/ESTEC 15:30 - 16:30		Newton 1-2, ESA/ESTEC 15:30 - 16:30		Technical training	
SEE effects on VLSI devices (ASIC and FPGA) Prof. Luca Sterpone		Coffee and posters Foyer, ESA/ESTEC		Coffee and posters Foyer, ESA/ESTEC		COTS in Space: Experience and lessons learned at ESA Dr Karim Lundmark	
Newton 1-2, ESA/ESTEC 16:00 - 17:00		Error-rate Prediction for Programmable Circuits: Methodology, Tools and Studied Cases Dr Raoul Velazco		Radiation tests of advanced SRAM memories Dr Juan Clemente		Newton 1-2, ESA/ESTEC 15:30 - 16:00	
EEE Parts in the New Space Paradigm Mr Kenneth Lader		Newton 1-2, ESA/ESTEC 17:00 - 18:00		Newton 1-2, ESA/ESTEC 17:00 - 18:00		Newton 1-2, ESA/ESTEC 15:30 - 18:00	
Newton 1-2, ESA/ESTEC 17:00 - 18:00		End of the day discussions Newton 1-2, ESA/ESTEC		End of the day discussions Newton 1-2, ESA/ESTEC		Concluding remarks Dr Raoul Velazco	
End of the day discussions Newton 1-2, ESA/ESTEC		Newton 1-2, ESA/ESTEC 18:00 - 18:30		Newton 1-2, ESA/ESTEC 18:00 - 18:30		Newton 1-2, ESA/ESTEC 16:00 - 16:30	

- Talks are 1-2 hour : ~5-10 min questions at the end
- **Do not hesitate to ASK questions, this is a school**
- **And continue during the pauses / lunch / dinner**



Mon 12/11

Tue 13/11

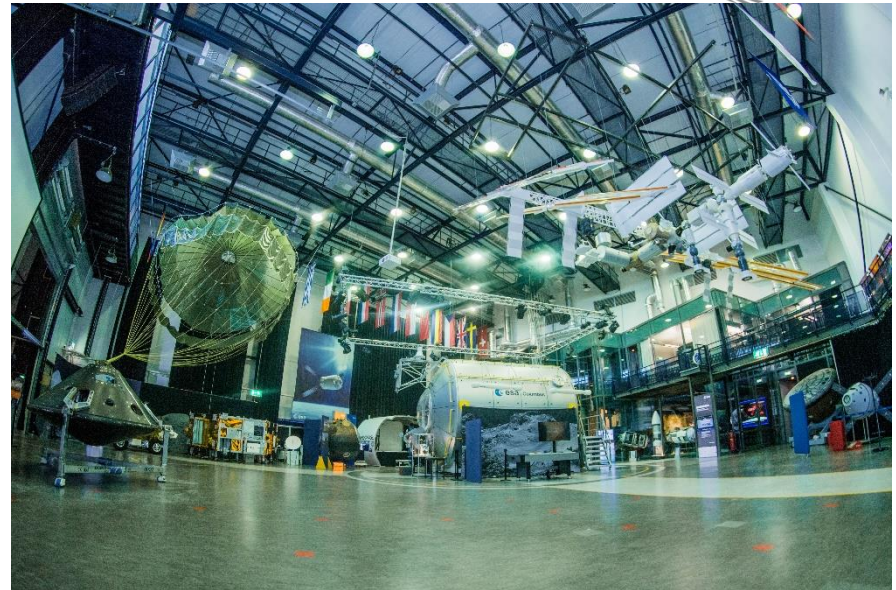
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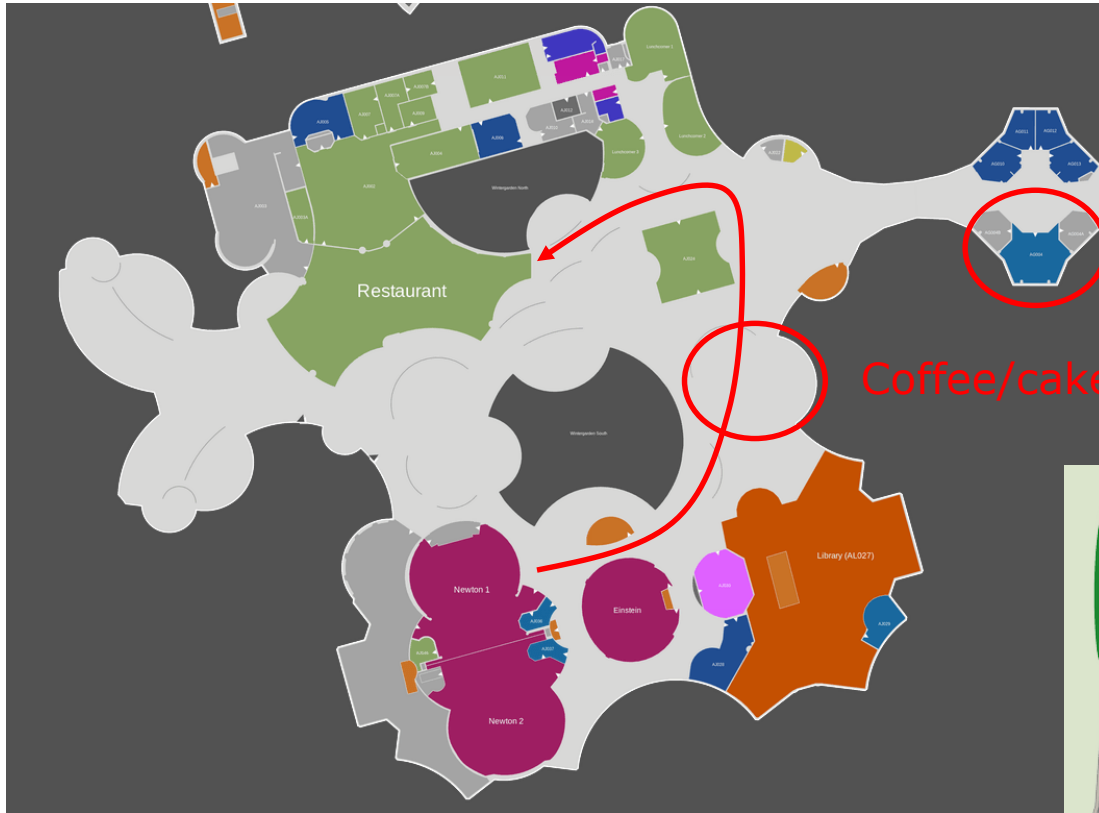
Thu 15/11

Fri 16/11

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Single Event Effects (SEE): Mechanisms and Classifications Dr Stephen Buchner 12:15 - 13:15		Newton 1-2, ESA/ESTEC 11:00 - 12:15		Development of a Hardened 150nm Standard Cell library João Baptista dos Santos 12:00 - 13:00		Newton 1-2, ESA/ESTEC 11:00 - 12:00	
Newton 1-2, ESA/ESTEC 12:15 - 13:15		Newton 1-2, ESA/ESTEC 11:00 - 13:00		Newton 1-2, ESA/ESTEC 12:00 - 13:00		Newton 1-2, ESA/ESTEC 12:00 - 13:00	
Lunch 13:15 - 14:30		Lunch 13:00 - 14:30		Lunch 13:00 - 14:30		Lunch 13:00 - 14:30	
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- 3 Groups :
 - Test center and High Bay visit
(divided in two sub-groups)
 - Technical training with the Co-60 facility
(divided in two sub-groups)
 - Free afternoon
- For the technical training :
Bring your laptop !





Gift shop

Coffee/cake



Transportations in the region

- Get an OV-Chipkaart in Leiden Centraal (8€, better for > 4 travels)
- **9292.nl or APP**
- Leiden is nicer for dinner and/or evening drinks
- Last busses out of Leiden around **midnight** (~no UBER)



- *La France* Restaurant
- Shuttle leaves at the Main entrance at 18:30
- Bus 20 in front of the restaurant to Noordwijk or Leiden
- Shuttle to Leiden, Noordwijk and Katwijk around 22:00
- **<https://framadata.org/seressa2018-attendees-location>**

Welcome to ESTEC



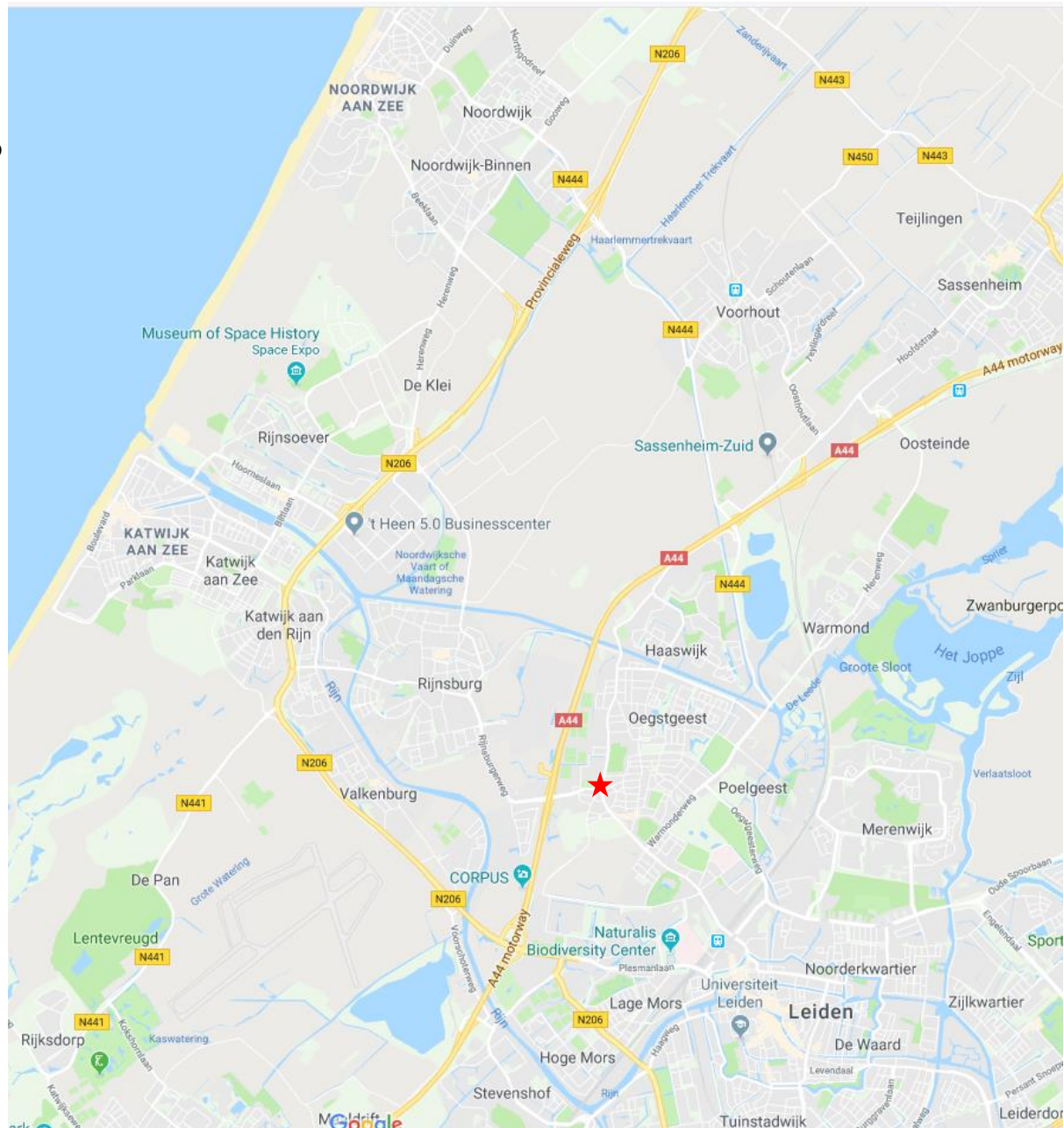


Back home

What time for the shuttle?

Hand vote:

22h or **23h**



**- First to Leiden +
bus to Katwijk
(31 or 37)**



Back home

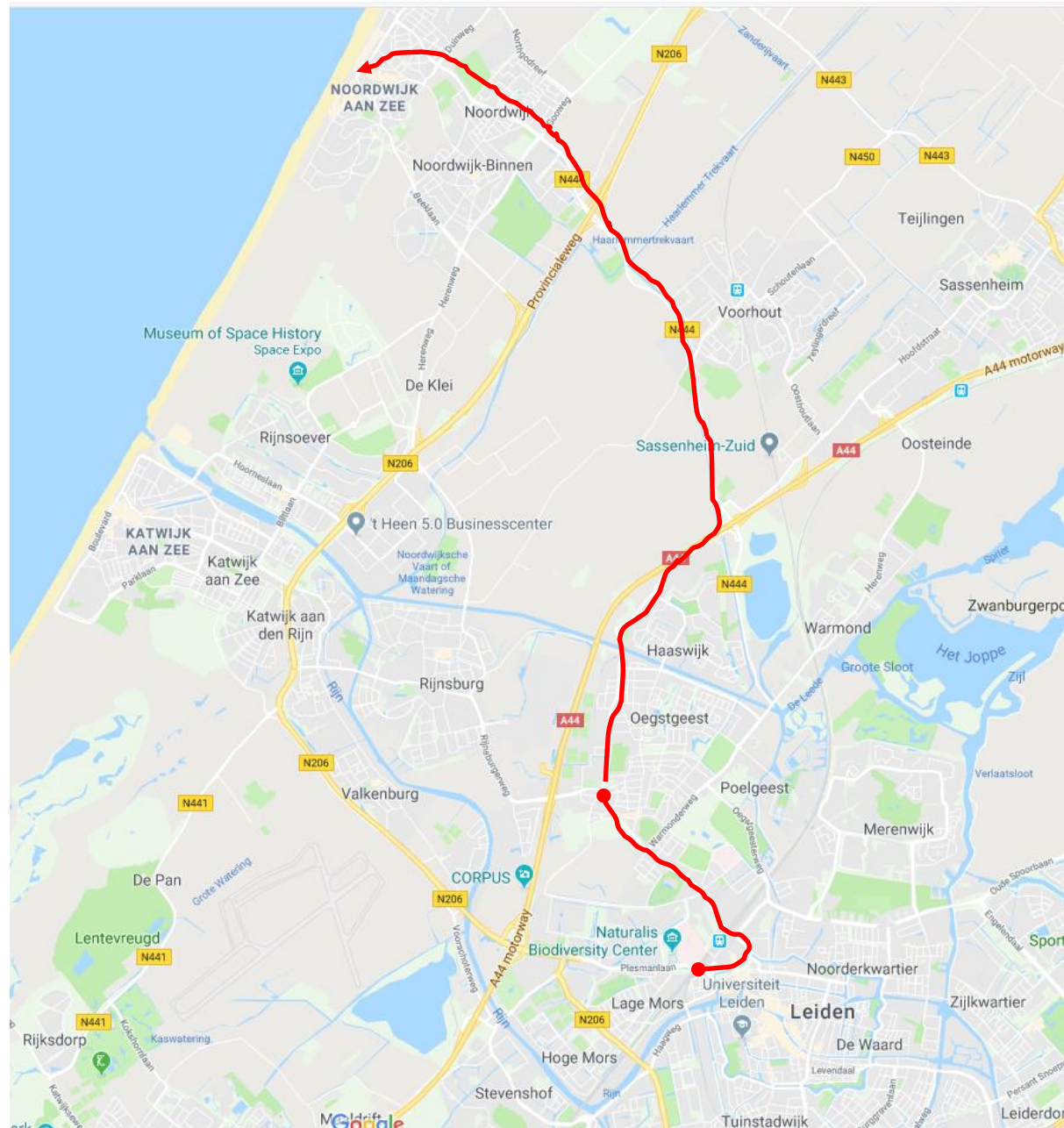
What time for the shuttle?

Hand vote:
22h or **23h**

- **First to Leiden + bus to Katwijk (31 or 37, use 9292.nl)**

- **Then again to restaurant and Noordwijk ann Zee**

- **NOT to ESTEC**

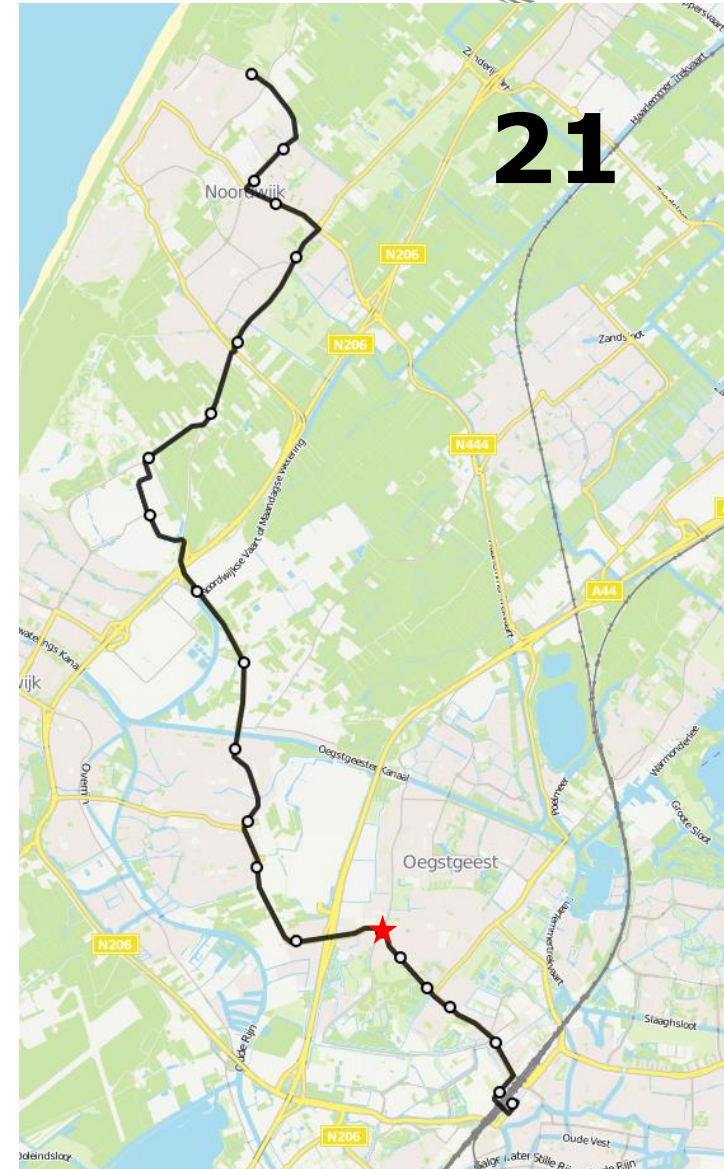
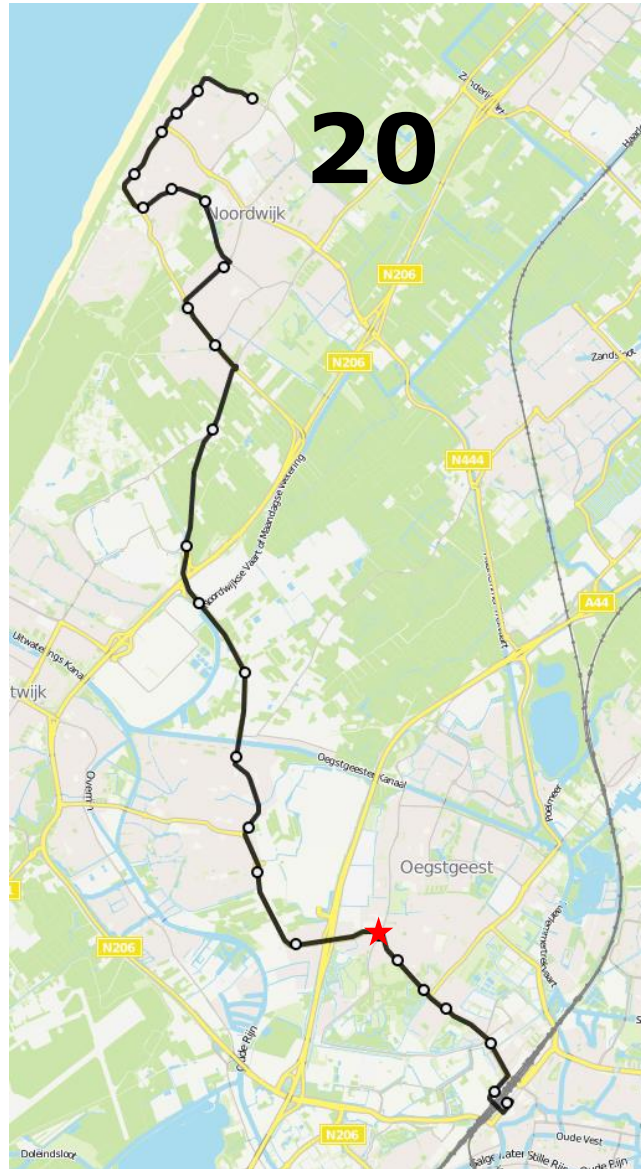


Back home

Bus option at any
time : 20 or 21

Finishes at
midnight

Use 9292 app/site
with your address



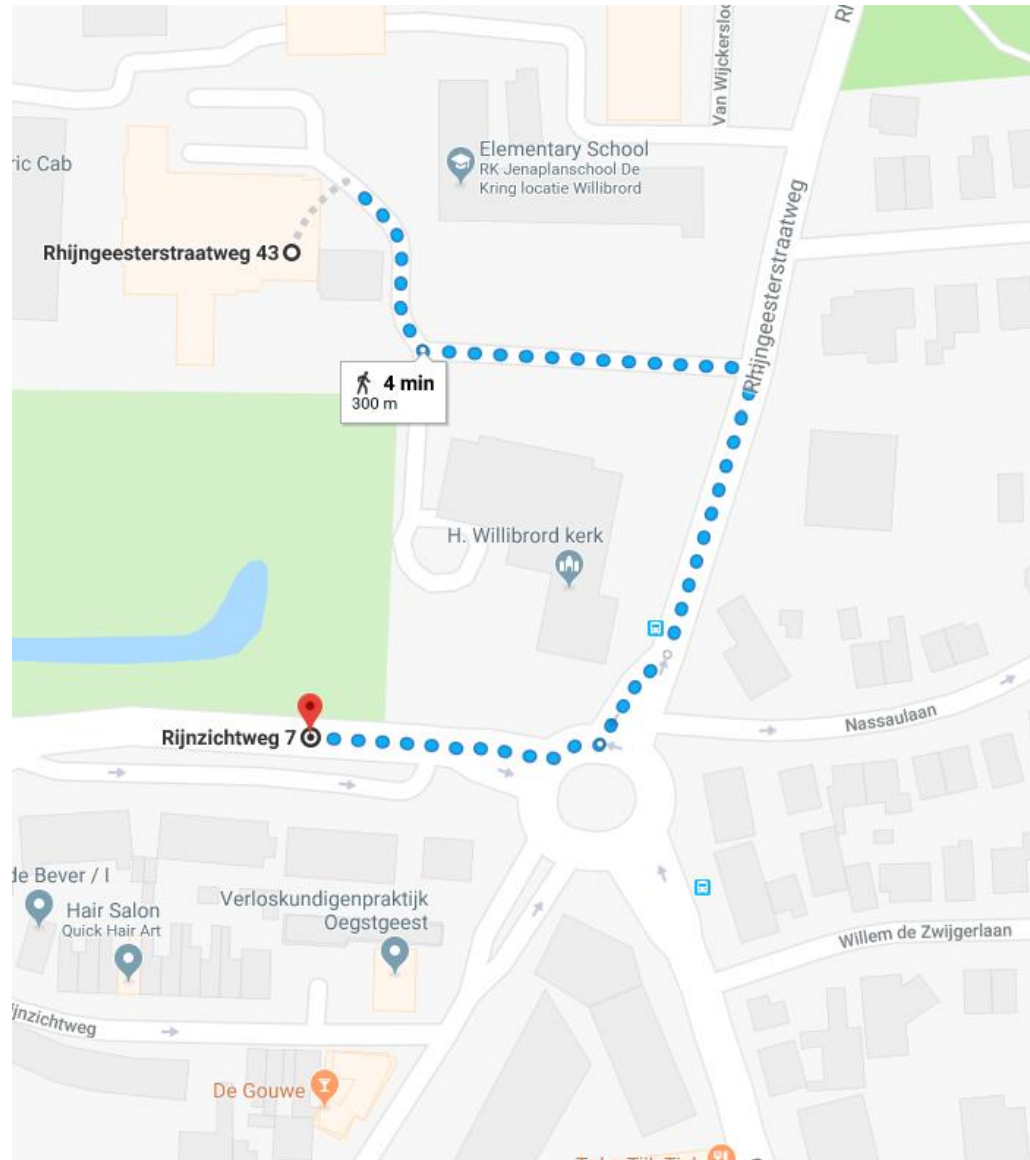
Back home

Bus option at any
time : 20 or 21

Finishes at
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Use 9292 app/site
with your address

To **Leiden** in one
direction



Back home

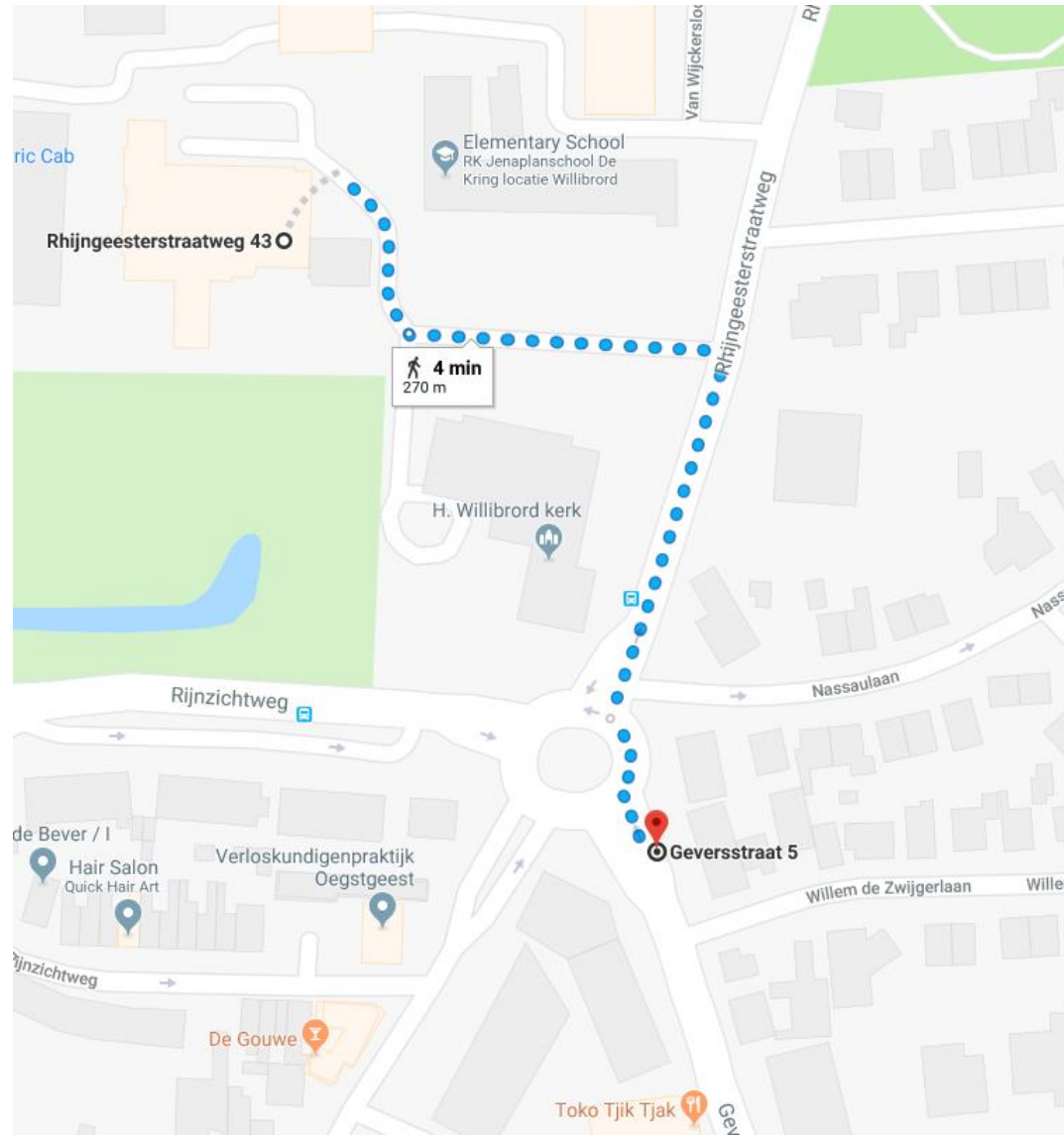
Bus option at any
time : 20 or 21

Finishes at
midnight

Use 9292 app/site
with your address

To **Leiden** in one
direction

To **Noordwijk aan
Zee** in the other

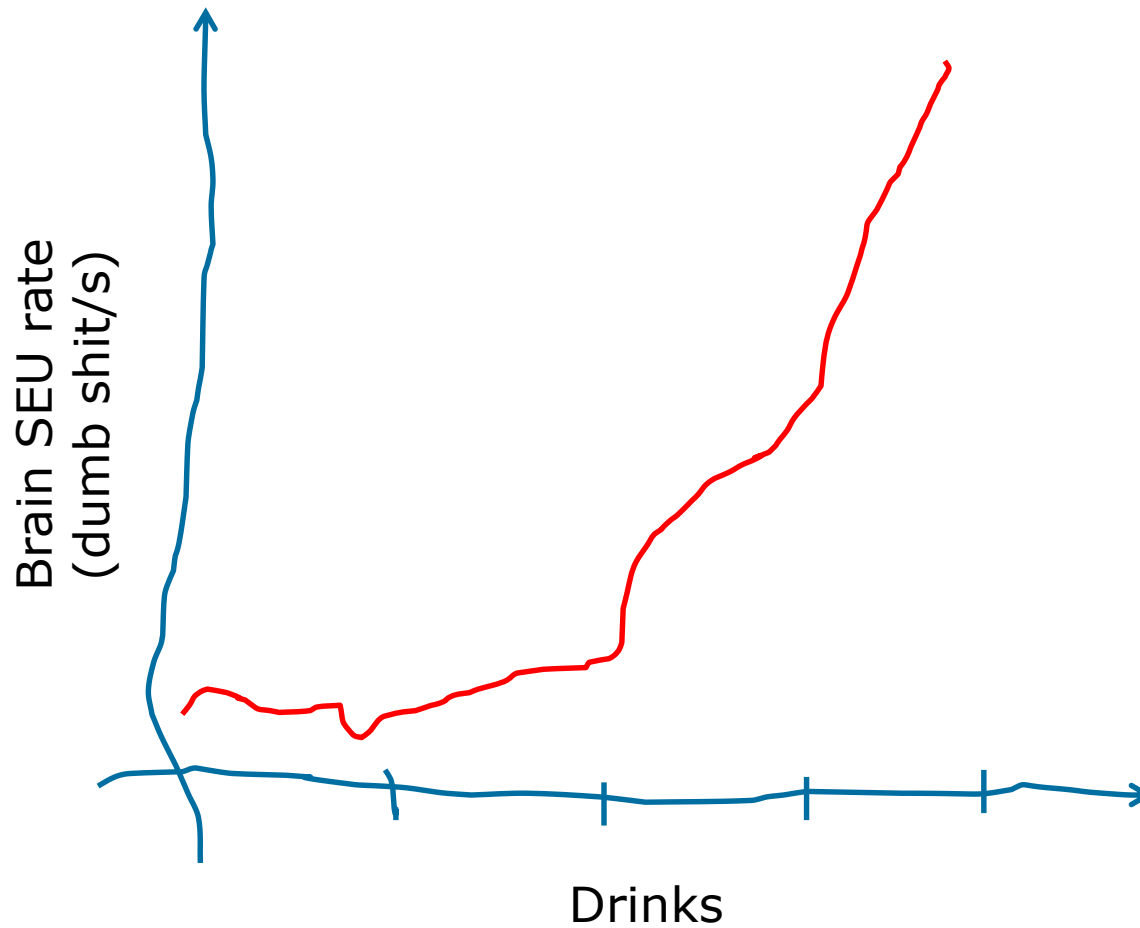


Back home



By car ...

By car ...



Deprez et al. 2018