

HERA WORKSHOP AGENDA

THURSDAY AM (9:30 AM)

Session 1: Overview (*I. Carnelli, P. Martino*)

9:30 Welcome to MfN (*K. Wünnemann*)

9:45 Hera project status and programmatic context (*I. Carnelli*)

9:55 Hera baseline mission scenario and spacecraft design (*P. Martino*)

10:10 DART and LICIA status update (*A. Cheng*)

10:25 Hera bonus science (*P. Michel*)

10:40 Coffee break

Session 2: Hera team organisation and status and plans of working groups (*P. Michel*)

11:00 Hera team organisation and scope (*M. Küppers*)

11:10 WG 1 "Impact simulations" status and future plans (*K. Wünnemann, M. Jutzi, S. Raducan*)

11:20 WG 2 "Ground-based observations" status (*P. Scheirich*) and future plans (*J. de Leon*)

11:30 WG 3 "Dynamics" results and future plans (*M. Tsiganis*)

11:40 WG 4 "Close-proximity operations" status and future plans (*S. Ulamec, C. Güttler*)

11:50 WG 5 "Data analysis, exploitation and interpretation" status and future plans (*J.-B. Vincent*)

12:00 Open discussion (*P. Michel, J.-B. Vincent, all*):

- Anything to be changed in team organisation, WGs
- Measurement/analyses workflow, establishing a mission campaign simulator concept

Session 3: Asteroid target flyby selection (*A. Fitzsimmons*)

12:30 Criteria for flyby target selection (*S. Green, repr. P. Pravec*)

12:40 Discussion about flyby targets (all, chair: *A. Fitzsimmons*)

13:00 Lunch

THURSDAY PM

Session 4: Hera mission objectives and baseline payload (*M. Küppers, A. Cheng*)

14:00 Hera primary mission objectives (L1) and baseline payload (*M. Küppers*)

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14:15 On the shoulders of DAWN and Rosetta: operation of the Asteroid Framing Camera (C. Güttler *et al.*)

14:25 Impact at Didymoon: what can we learn from imaging? (J. Deller *et al.*)

14:30 PALT: Overview and contribution to mission objectives (P. Gordo)

14:40 HYPTIRA: a VNIR hyperspectral and TIR imager (J. Blommaert)

14:50 The APEX cubesat (J.-E. Wahlund, T. Kohout)

15:00 The Juventas cubesat (Ö. Karatekin, H. Goldberg)

15:10 Radio Science Investigations at Didymos (P. Tortora, A. Herique)

15:20 Coffee Break

Session 5: Hera bonus science (S. Green)

15:50 AIDA impact characterisation on the experience of DAWN-FC at Vesta & Ceres (A. Nathues)

16:00 Constraints on Didymos Compaction and Cratering (G. Parisi)

16:10 Using Cubesat bouncing for investigating mechanical surface properties (U. Auster)

16:20 Mechanical and magnetic properties of micron-sized asteroid regolith from the study of Itokawa samples (J.-M. Trigo-Rodriguez)

16:30 Rotational mass lofting on near-Earth asteroid (1917) Cuyo (B. Rozitis)

16:40 Observational possibilities in the middle infrared spectral region (A. Kereszturi)

16:50 Bistatic radar investigation of Didymos (A. Herique, P. Tortora)

17:00 Discussion: Priorities of bonus science and translation of science needs into requirements (S. Green, *all*)

18:30 Evening reception (at the museum)

FRIDAY AM

09:00 Keynote speech (F. Ongaro)

Session 6: High-TRL payload opportunities (M. Kueppers)

09:30 Hyperspectral data: from the heritage to the future perspective (A. Miglironi)

09:40 Spectral imaging for science and navigation (M. Esposito)

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09:50 VISTA: a thermogravimeter to measure dust and volatile from Dydimos (*F. Dirri*)

10:00 Micro-reflectors for Asteroids and Comets: Options for Hera (*M. Muccino*)

10:10 The DISCUS Radar and its deployable Antenna (*P. Bambach*)

10:20 Geophysical exploration of asteroids with a surface science package (*N. Murdoch*)

10:30 BIRDY payload for proximity probing interior (*D. Hestroffer*)

10:40 Potential utilisation of a CubeSat scale Spacecraft-on-Demand system for bonus science opportunities identified pre- and post-launch (*M. Johnson*)

10:50 High TRL Telescope for Hera Cubesat (*M. Moreno Ibáñez*)

11:00 Dust monitoring around and on Dydimos by the NepHera instrument suite (*G. Dolgos*)

11:10 Coffee break

Session 7 Technology opportunities and industrial applications, including operations (*P. Martino, J. Gil*)

11:40 Space qualified miniaturised CMOS camera for spacecraft monitoring and navigation (*W. Mouallem*)

11:50 Close encounter characterisation and deflection design for planetary protection and defence (*C. Colombo*)

12:00 Nano-satellite Proximity Operations Missions and Flight Heritage: Tyvak perspective towards HERA Mission (*F. Nichele*)

12:10 Hera spacecraft autonomy (*M. Graciano, A. Pellicani*)

12:25 Lunch

Friday PM

Session 8: Closing session (*P. Michel, M. Kueppers, S. Green, A. Fitzsimmons*)

13:30 Upcoming meetings/planning future steps (*I. Carnelli, M. Kueppers*)

13:40 Discussion on small body community coordination and promotion of Hera (*all*)

14:45 General discussion (*P. Michel, M. Küppers, all*)

- National representatives from the scientific community
- Anything to be added (payload, constraints)?
- Ideas and suggestions by the community

16:00 End of meeting

Wegeplan

- 1** Haupteingang
- 2** Portal II
- 3** Portal III:
Barrierefreier Zugang
- 4** Abteilung Wissenschaft in der Gesellschaft (EG)
Besprechungsraum Z 1003 FB4 (EG)
Tierstimmenarchiv (1. OG)
Besprechungsraum Z 1108 (1. OG)
Zoologische Bibliothek (2. OG)
- 5** Portal V:
Personaleingang, Anmeldung Gäste & Warenannahme
Besprechungsraum Z 7003 (Erdgeschoss)
Generaldirektion (1. OG)
Büro für Öffentlichkeitsarbeit (2. OG)
- 6** Lastenaufzug
- 7** Technischer Leiter (1. OG)
Historische Arbeitsstelle (2. OG)
- 8** Hörsaal 7
- 9** Grafik & Fotografie (EG)
Verwaltung (3. OG)
Personalrat (3. OG)
Personalreferat (4. OG)
- 10** Entomologische Bibliothek (1. OG)
Hörsaal 8 (2. OG)
- 11** Anmeldung / Anlieferung Material

T1-16 Treppenhäuser



Baufeld

Museum für Naturkunde Berlin
Invalidenstr. 43, 10115 Berlin
www.naturkundemuseum.berlin

Stand / Updated: 23.01.2018

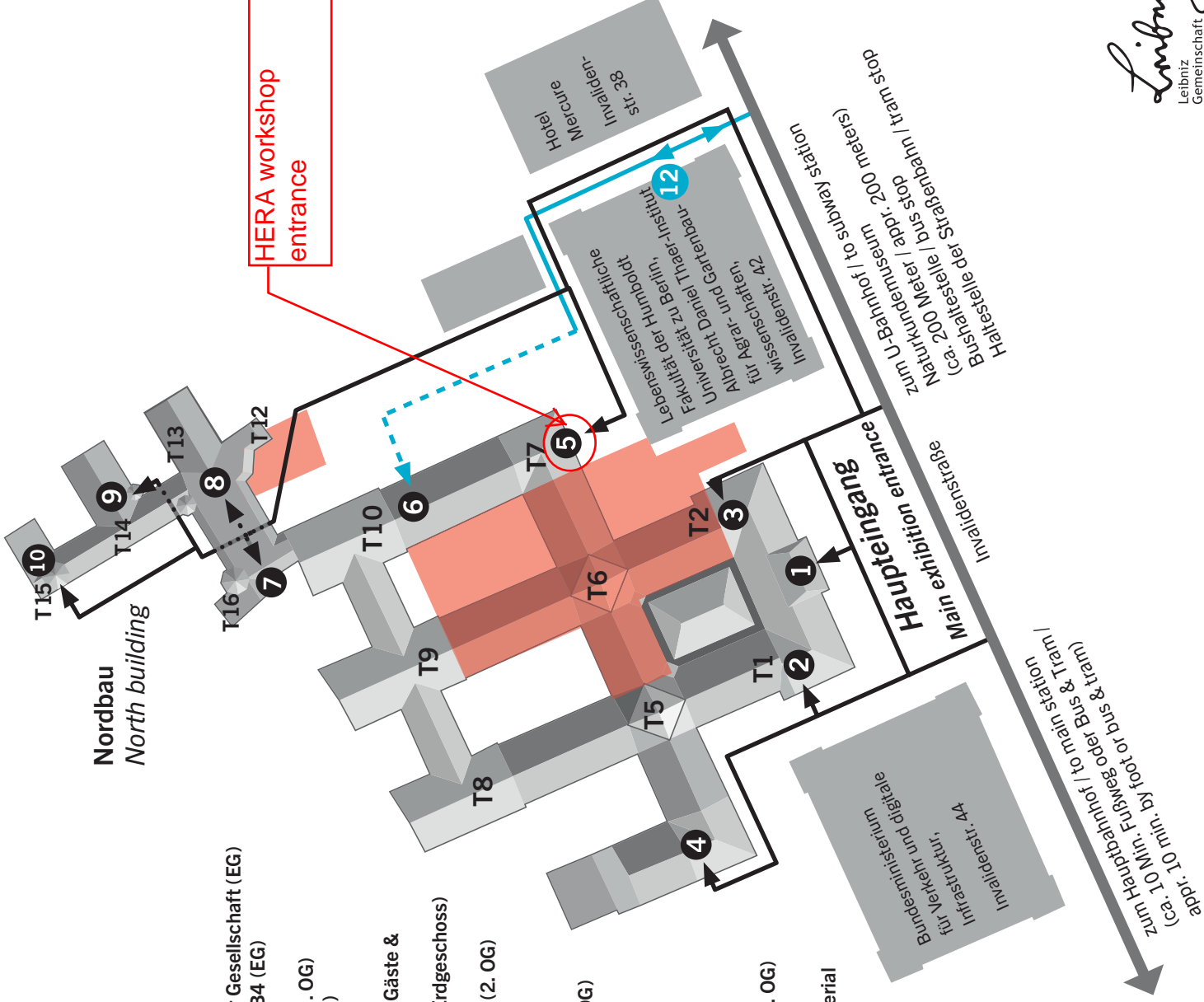
Site Map

- 1** Main entrance
- 2** Portal II
- 3** Portal III:
Entrance for disabled persons
- 4** Science in Society (Ground Floor)
Seminar Room Z 1003 FB4 (Ground Floor)
Animal Sound Archive (1st Floor)
Seminar Room Z 1108(1st Floor)
Zoological Library (2nd Floor)
- 5** Portal V:
Staff entrance, registration invited visitors & delivery
Seminar Room Z 7003 (Ground Floor)
General Director's office (1st Floor)
Public Relations (2nd Floor)
- 6** Freight elevator
- 7** Technical manager (1st Floor)
Department of
Historical Research (2nd Floor)
- 8** Lecture Hall 7
- 9** Grafik & Photography (ground Floor)
Administration (3rd Floor)
Staff council (3rd Floor)
HR department (4rd Floor)
- 10** Entomological Library (1st Floor)
Lecture Hall 8 (2nd Floor)
- 11** Registration / Delivery

T1-16 Stairways

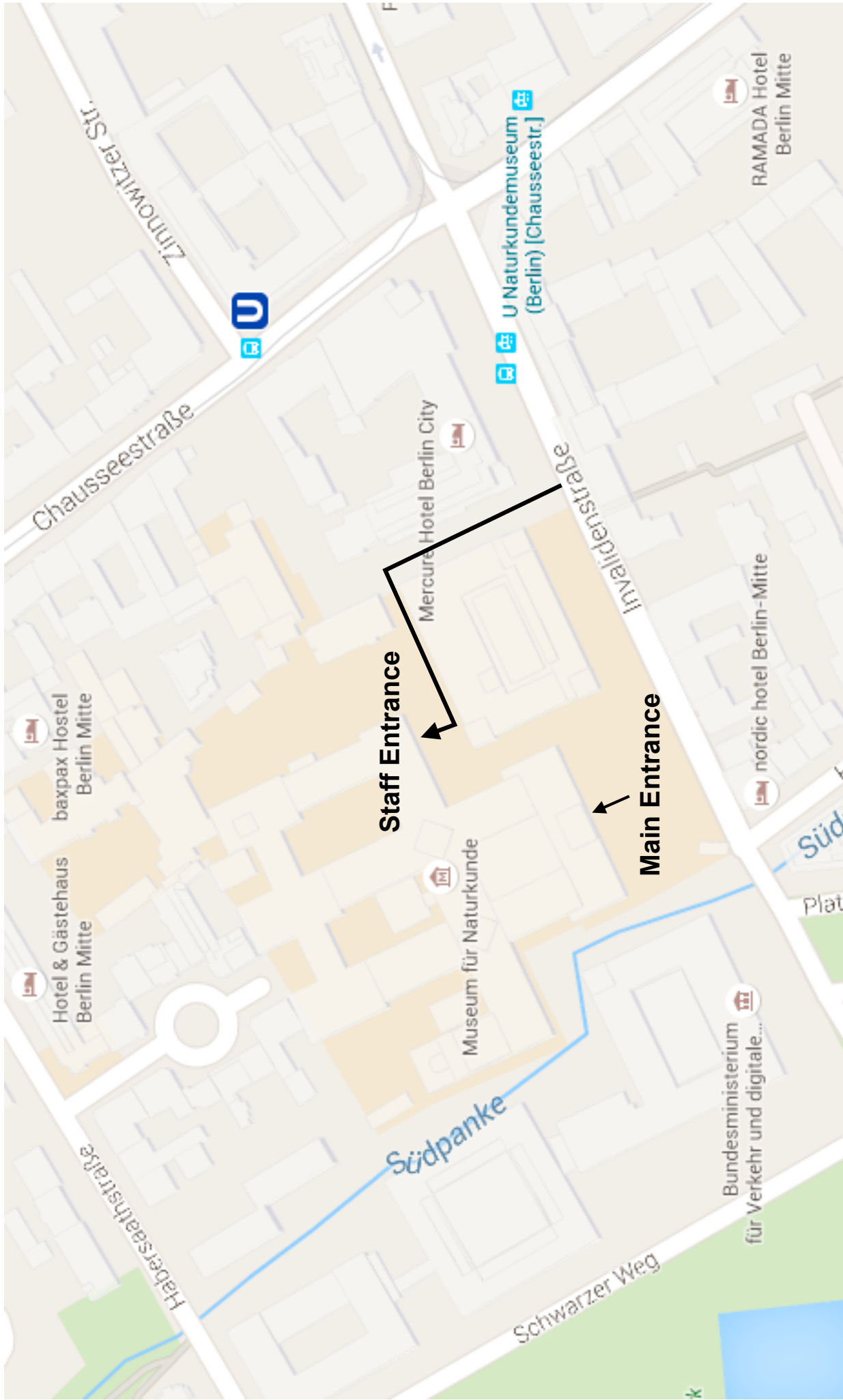


Construction Site



Leibniz
Gemeinschaft

Leibniz
MUSEUM FÜR
NATURKUNDE
BERLIN



Staff Entrance

Main Entrance

Museum für Naturkunde

U Naturkundemuseum
(Berlin) [Chausseestr.]

Mercure Hotel Berlin City

RAMADA Hotel
Berlin Mitte

nordic hotel Berlin-Mitte

baxpax Hostel
Berlin Mitte

Hotel & Gästehaus
Berlin Mitte

Bundesministerium
für Verkehr und digitale...

Chausseestraße

Invalidenstrasse

Südpanke

Schwarzer Weg

Süd
Platz

