## Wednesday, 12 June

| Time | | | |
|------|---|---|---|
| 08:00 - 13:00 | Registration | | Ground floor (BG) |
| 08:45 - 09:30 | **Modelling Structure-Ice Contact** *Keynote Lecture by Kaj Riska* | | Senaatszaal *Chair: H. Hendrikse* |
| 09:30 - 09:50 | Coffee break | | Foyer |

### Parallel session 1

| Room | Senaatszaal | | Commissiekamer 3 |
|------|-------------|---|------------------|
| Session | Ice mechanics II/V | | Remote sensing & data acquisition and oil in ice I/II |
| Chairs | *A. Barker*     *J.S. Hoving* | | *A. Marchenko*     *B. Lishman* |
| 09:50 - 10:10 | The effect of sample dimensions on the compressive strength of model-scale ice<br><br>*M.T.O. Suominen , R.U. Franz von Bock und Polach, A. Haase* | | Use of satellite remote sensing to study wave-ice interactions in the marginal ice zone – A review<br>*D. Monteban , R. Lubbad, J.O.P. Pedersen* |
| 10:10 - 10:30 | High pressure crushing of ice against a concrete surface under confined conditions<br><br>*J. Costello , Y. Liu, S. Bruneau, B. Colbourne* | | A low-cost survey method for sea ice topography using Structure-from-Motion photogrammetry and small UAVs<br>*M. St-Amant , D. Mueller, A. Tivy, A. Garbo* |
| 10:30 - 10:50 | Peridynamic simulations on propeller-ice impact<br>*L. Ye , C. Guo, C. Wang, C. Wang* | | Trends in seismic data acquisition in areas with surface ice<br>*A. Hussain , O.T. Gudmestad, J. Barabady* |
| 10:50 - 11:10 | Hydrostatic weighing method in application to model ice density measurements<br><br>*T. Zvyagina , P. Zvyagin* | | MOSIDEO/CIRFA tank experiments on behavior and detection of oil in ice<br><br>*C. Petrich , M. O'Sadnick, C. Brekke, M. Myrnes, S. Maus, M.L. Salomon, S. Woelk, T. Grydeland, R.O. Jenssen, H. Eicken, M. Oggier, L. Ferro-Famil, L. Harkati, O. Rebane, N. Reimer* |
| 11:10 - 11:30 | Coffee break | | Foyer |

### Parallel session 2

| Room | Senaatszaal | Van Hasseltzaal | Commissiekamer 3 |
|------|-------------|-----------------|------------------|
| Session | Ice mechanics III/V | Ship resistance in ice I/III | Remote sensing & data acquisition and oil in ice II/II |
| Chairs | *A. Barker*    *J.S. Hoving* | *G. Wilkman*    *W. Lu* | *A. Marchenko*    *B. Lishman* |
| 11:30 - 11:50 | Experimental study on the tensile strength of granular sea ice based on Brazilian tests<br><br>*X. Chen , S. Ji* | Extension of FSICR method for calculation of ship resistance in brash ice channel<br><br>*M.M. Karulina , E.B. Karulin, O.V. Tarovik* | Semi-Automatic ice floe detection for drift evaluation<br><br>*Y. Kadranov, S. Vernyayev , A. Sigitov* |
| 11:50 - 12:10 | The effect of cyclic loading on the flexural strength of columnar freshwater ice<br><br>*A. Murdza , E.M. Schulson, C.E. Renshaw* | Ice resistance calculation method for a ship sailing via brash ice channel<br><br>*A.A. Dobrodeev , K.E. Sazonov* | Noise analysis of model ice contours in images<br><br>*P. Zvyagin , A. Voitkunskaia, E. Maksimov* |
| 12:10 - 12:30 | Correlation between bow ice loads and operational responses during ice navigation in the Weddell Sea<br>*A. Bekker , L. Lu, C.M. van Zijl, J.J. Matthee, P. Kujala* | Simulation of a ship advancing in floating ice floes<br><br>*L. Huang , M. Li, B. Igrec, P. Cardiff, D. Stagonas, G.A.N. Thomas* | A method for crack recognition between two connected model ice floes<br><br>*P. Zvyagin , M. Stepanov, T. Zvyagina* |
| 12:30 - 13:30 | Lunch | | |