

Sunday. June 25		
18.30 – 20.00	Ice-breaker in the National museum of Finland (address: Mannerheimintie 34)	
Monday. June 26 (Registration desk: 08.00 -16.00)		
09.15 – 9.45	Official opening - PI	
9.45 – 10.30	Plenary session I - PI Annele Virtanen: On the atmospheric implications of the solid phase and phase transitions of secondary organic aerosols Chair: Kaarle Hämeri	
10.30–11.00	Coffee break, snacks & exhibition	
11.00-12.30	Session 1 – PI: Particle Phase Change Chairs: Taina Yli-Juuti & Markus Petters	
11.00	Bastien Radola: A molecular dynamics study of the phase changes of organic aerosols	
11.15	Ari Laaksonen: The adsorption theory of heterogeneous nucleation: comparison to experiments	
11.30	Markus Petters: Phase transitions of internally-mixed amorphous aerosols	
11.45	Benjamin Thomas: Oxidation of mixed fatty acid monolayers on an aqueous subphase: Evident for surface phase changes?	
12.00	Taina Yli-Juuti: Evaporation of α -pinene derived SOA particles under different humidity conditions	
12.15	Thomas Koop: Glass formation in mixed organic/organic and inorganic/organic aerosol particles	
12.30 -13.30	Lunch (Unicafe with ICNAA coupons) & exhibition	
13.30-15.00	Session 2 - PI: Nucleation, fundamentals Chair: Jyrki Mäkelä	Session 3 - PII: Aerosols in the troposphere Chairs: Stephany B. Mazon & Josef Dommen
13.30	Philip Hopke: Current advances and problems in vapor-gas nucleation theory and experiments	Josef Dommen: From new particle formation to CCN at the high altitude station Jungfraujoch: an overview
13.45	Martin Horsh: Reexamination of the theoretical basis of Tolman's law	Federico Bianchi: The Himalayan aerosol factory: the chemistry of new particle formation
14.00	Anne Maisser: Heterogeneous nucleation of n-butanol vapor on various monoatomic ions	Johannes Schneider: Secondary organic aerosol formation in tropical upper troposphere
14.15	Gerald Wilemski: Wetting transitions in alkane-water nanodroplets	Stephany B. Mazon: Nucleation mode ions and particles in the Amazon: inside vs. outside canopy conditions
14.30	Barbara Hale: Reexamination of the	Indra Chandra: Current situation of

	Scaling of Homogeneous Nucleation Rates for Water	atmospheric nanoparticles in Fukue Island, Japan
14.45	Jan Hrubý: Surface tension of ordinary water at low temperatures including supercooled region	Laura Riuttanen: Observational evidence for aerosols increasing upper tropospheric humidity
15.00 -15.30	Coffee break, snacks & exhibition	
15.30-17.30	Session 4 - PI: Aerosol formation and growth Chairs: Jenni Kontkanen & Pontus Roldin	Session 5 - PII: Aerosol-CCN-cloud Chairs: Jurgita Ovadnevaite & Risto Makkonen
15.30	Theo Kurten: Accounting for chemical complexity in the formation of highly oxidized compounds by atmospheric autoxidation	Xiangrui Kong: Adsorption, dissociation and diffusion of HCl at the warm ice surface and beyond
15.45	Pontus Roldin: Formation and contribution of highly oxidized organic molecules to the growth of new particles	Jurgita Ovadnevaite: The role of organics in marine aerosol CCN activation
16.00	Jenni Kontkanen: Proxy for estimating the concentrations of highly oxidized organic compounds in boreal forest	Luke Cravigan: Sources of cloud condensation nuclei over the remote Southern Ocean
16.15	Heikki Junninen: Night time observations of biogenic new particle formation over boreal fen	Paul Herenz: CCN measurements at the Princess Elisabeth Antarctica Research Station
16.30	Katrianne Lehtipalo: The CLOUD experiment resolving the mechanism of new particle formation in boreal forest conditions	Risto Makkonen: Global trends of cloud condensation nuclei concentrations
16.45	Robert Wagner: The role of ions in new particle formation in the CLOUD chamber	Simon Gruber: Climate engineering by Arctic winter cirrus thinning: risks and feasibility
17.00	Xuemeng Chen: The connection and divergence of the theoretical framework for air ion study derived from the balance equation concept in the disciplines of atmospheric electricity and atmospheric aerosol study	James Hudson: Accumulation mode from cloud processing
17.15	Anna Wonashuetz: Measurement of mineral dust and organic aerosols with the LAAPTOF single particle mass spectrometer	Pauli Paasonen: Particle growth rates from nucleation mode to cloud condensation nuclei sizes
19.00 -20.30	Helsinki City Reception at the City Hall	

	(address: Pohjoisesplanadi 11–13)	
Tuesday, June 27 (Registration desk: 8.30 – 16.00)		
9.00 -9.45	Plenary Session II - PI Kyoko Tanaka: Nucleation processes revealed by large-scale molecular dynamics simulations Chair: Michael Boy	
9.45-10.30	Session 6 – PI: Particle phase change Chair: Katrianne Lehtipalo	
09.45	Sarah Petters: Temperature- and humidity-dependent phase states of secondary organic aerosols	
10.00	Ricky Nellas: Thermophysical properties of normal and branched alkanes from nucleation simulations	
10.15	Murray Johnston: Impact of particle phase chemistry on nanoparticle composition and growth rate	
10.30-10.45	Group Foto	
10.45-11.00	Coffee break, snacks & exhibition	
11.00-12.30	Session 7 - PI: Nucleation, fundamentals Chairs: Tereza Trávníčková & Paul Winkler	Session 8 - PII: NPF around the world Chairs: Christina Williamson & Ville Vakkari
11.00	Paul Winkler: Three-phase contact line properties of critical clusters determined from heterogeneous nucleation experiments	Mikko Sipilä: Secondary aerosol formation mechanisms in polar areas by direct measurement of cluster chemical composition and condensing vapours
11.15	Donguk Suh: Seed shape effect of heterogeneous droplet, bubble, and crystal nucleation by molecular dynamics	Jaeseok Kim: Characteristics of New Particle Formation at the King Sejong Station, Antarctic Peninsula
11.30	Vitaly Shneidman: Statistics of nucleation in small and large systems	Tuija Jokinen: Solar eclipse – Nature's own nucleation experiment
11.45	Reinhard Strey: Experimental confirmation of the Knudsen effect in nanoporous insulation materials	Ville Vakkari: Rapid secondary aerosol formation in savannah and grassland fire plumes in southern Africa
12.00	Tereza Trávníčková: Novel approach in binary nucleation experiments performed under laboratory conditions	Tuomo Nieminen: Global analysis of continental boundary layer new particle formation based on long-term measurements
12.15	Michael Anisimov: New vapor embryos nucleation rate on a droplet surface in a dry gas flow	Christina Williamson: Constraining nucleation mechanisms in global models with measurements of the global distribution of newly formed particles from the NASA Atmospheric Tomography Mission

12.30 – 13.30	Lunch (Unicafe with ICNAA coupons) & exhibition	
13.30 – 15.30	Session 9 - PI: Aerosol formation and growth Chairs: Merete Bilde & Olli-Pekka Tikkanen	Session 10 - PII: Ice nucleation Chairs: Christina McCluskey & Mikhail Paramonov
13.30	Jonathan Duplissy: Molecular understanding of new particle formation within volcanic plumes using flying mass spectrometer	Anatoly Bogdan: Atmospheric ice nucleation concept hinders the study of high-altitude ice clouds
13.45	Jussi Malila: Recognising the role of sulphuric acid in atmospheric new particle formation - a short history	Paul DeMott: Ice nucleating particle emissions from land surfaces
14.00	Dominik Stolzenburg: Detailed determination of size- and time-dependent growth rates during new particle formation	Ottmar Möhler: A summary of results from the fifth international ice nucleation (fin) workshop series
14.15	Merete Bilde: The effect of temperature on formation and properties of SOA from alpha-pinene ozonolysis	Christina McCluskey: Abundance and characteristics of ice nucleating particles in remote coastal and oceanic regions
14.30	Xiuhui Zhang: A "catalytic" effect of glycolic acid on the formation of sulfuric acid-ammonia molecular clusters	Benjamin Murray: Aircraft measurements of ice nucleating particle concentrations above the dust laden tropical Atlantic
14.45	Jonas Elm: Molecular understanding of atmospheric new particle formation from sulfuric acid and diamines	Mikhail Paramonov: A laboratory investigation of the ice nucleation efficiency of mineral and soil dust
15.00	Arto Heitto: Modelling the growth of nanosized particles based on ambient organic vapour concentrations	Martin Wolf: Probing the Ice Nucleation Potential of Organic Sea Spray Aerosol
15.15	Olli-Pekka Tikkanen: Hygroscopicity of DMA-SA nanoparticles - comparison of measurements to model predictions	Olli Pakarinen: Role of surface structure in heterogeneous nucleation of ice
15.30-18.00	Poster session I (beverages & snacks)	
Wednesday, June 28		
09.00	Excursion to Porvoo Busses leave from the Senate Square (Unioninkatu 34)	

10.30	Plenary Session III (Art factory, Porvoo) Chair: Hanna Vehkamäki Robert McGraw: Temperature dependence in heterogeneous and homogeneous nucleation Markku Kulmala: Legacy of SMEAR II observatory	
12.30	Lunch at the conference venue Art factory in Porvoo	
13.30	Free time & excursions in Porvoo	
16.00	Boat leaves from Porvoo (directly to the restaurant)	
16.00	Bus leaves from Porvoo to Helsinki city center	
19.30	Conference dinner Restaurant Saaristo	
Thursday, June 29 (Registration desk: 08.30 – 16.00)		
09.00-09.45	Plenary session IV - PI Thomas Peter: Heterogeneous versus homogeneous nucleation of ice in the upper troposphere and lower stratosphere Chair: Paul DeMott	
09.45-10.00	Award ceremony - PI	
10.00 – 12.30	Poster Session II (refreshments & snacks served)	
12.30 – 13.30	Lunch (Unicafe with ICNAA coupons) & exhibition	
13.30 – 15.00	Session 11 - PI: Ice nucleation Chairs: Daniel Rieger & Gregory Schill	Session 12 - PII: Sub 10 nm aerosol instrumentation Chairs: Chris Hogan & Michel Attoui
13.30	Gregory Schill: The Contribution of Black Carbon to Ice Nucleating Particle Concentrations from Biomass Burning	Jingkun Jiang: A miniature cylindrical differential mobility analyzer for sub-3 nm particle sizing
13.45	Robert Wagner: Heterogeneous ice nucleation ability of inorganic sea salt aerosol particles	Gerhard Steiner: An axial mobility classifier for the size segregation of atmospheric cluster ions
14.00	Daniel Rieger: Scale-dependency of cirrus cloud formation in the icon-art model	Joonas Vanhanen: Characterization of Dekati Diluter in the 1-20 nm
14.15	Sarah Grawe: Immersion freezing induced by coal fly ash	Michel Attoui: Characterization of the boosted 3776 butanol TSI CPC as detector in the sub 2 nm range
14.30	Atanu K. Metya: Heterogeneous	Florian Dahlkötter: Investigation of

	nucleation of supercooled water nano-droplet and droplet containing nanoparticles on rough and smooth surfaces: a molecular dynamics investigation	particle nucleation events by highly resolved SMPS measurements
14.45	Daniel Cziczco: Uncertainty in counting ice nucleating particles	Joonas Enroth: On measuring the response time of condensation particle counters
15.00 – 15.30	Coffee break, snacks & exhibition	
15:30–17.15	Session 13 - PI: Atmospheric chemistry Chairs: Katerina Karadima & Siegfried Schobesberger	Session 14 - PII: Sub 10 nm aerosol instrumentation Chairs: Jingkun Jiang & Juha Kangasluoma
15.30	Chao Yan: The impact of NO _x on oxidation products of monoterpenes and the subsequent nano-particle formation	Chris Hogan: The development of drift tube ion mobility spectrometry for the analysis of sub 10 nm particles
15.45	Olga Garmash: The effect of NO _x on distribution of highly oxygenated molecules in aromatic systems	Markus Leiminger: The nanoTOF: A novel approach to study cluster ions
16.00	Katerina Karadima: Effect of organic content and humidity on the structure of atmospheric nanoparticles: a molecular dynamics study	Daniela Wimmer: Experimental investigation of aerosol particle composition and growth rates
16.15	Anna Hodshire: Nucleation and growth under high OH conditions	Lauri Ahonen: Characterisation of the effects caused by sample air humidity to the performance of a diethylene glycol based particle size magnifier
16.30	Siegfried Schobesberger: Quantifying oligomerization in organic aerosol through desorption thermogram modeling	Christian Tauber: On the temperature dependence of heterogeneous nucleation of n-butanol vapor on Ag and NaCl particle
16.45	Alexander Laskin: Atmospheric particles from unrecognized atmosphere-land interactions	Konstantinos Barmounis: Alternating sign preference in ion-induced nucleation
17.00	Gennady Gor: Kinetic model for condensation-induced restructuring of atmospheric soot agglomerates	Juha Kangasluoma: On selected sources of uncertainty in the sub-3 nm particle concentration measurement
17.30 -18.00	Plenary session V - PI Timo Vesala: 8-hours study of heat transfer in saunas over 21 years Chair: Tuomo Nieminen	
Friday, June 30 (Registration desk: 08.30 – 14.00)		

09.00 – 09.45	<p style="text-align: center;">Plenary session VI - PI Lin Wang: Atmospheric nucleation in urban China Chair: Veli-Matti Kerminen</p>	
09.45 – 10.30	<p style="text-align: center;">Session 15 – PI: Particle phase change Chair: Veli-Matti Kerminen</p>	
09.45	Mark Holden: Investigating active sites for immersion mode ice nucleation on alkali feldspars	
10.00	Miklós Szakáll: Retention of organic and inorganic substances during the phase change induced by riming	
10.15	Manish Shrivastava: Viscous secondary organic aerosols elevate global long-range transport and lung-cancer risk	
10.30 – 11.00	Coffee break, snacks & exhibition	
11.00 – 12.30	<p style="text-align: center;">Session 16 - PI: Aerosols in urban environment Chairs: Carmen Dameto de Espana & Wei Nie</p>	<p style="text-align: center;">Session 17 - PII: Nucleation: theory, experiments and observations Chairs: Eimear Dunne & David Reguera</p>
11.00	Imre Salma: Special features and relevance of new aerosol particle formation and growth process in cities	David Reguera: Nucleation under strong confinement
11.15	Wei Nie: New particle formation in polluted Yangtze River Delta	Tinja Olenius: Description of nucleation in aerosol dynamics models: Evaluation of commonly used assumptions
11.30	Xueshun Chen: Simulation on particle formation in Beijing	Jorge Ferreiro: Direct observation of cluster size distributions during nucleation and growth in laval expansions
11.45	Chunguan Cui: Visibility, PM2.5 and relative humidity in Wuhan	Eimear Dunne: A new parameterization of inorganic nucleation
12.00	Mao Xiao: Investigation of the role of aromatic hydrocarbons in new particle formation under urban atmospheric condition in the cloud chamber	Clémence Rose: Atmospheric evidence for pure biogenic nucleation
12.15	Carmen Dameto de Espana: Long-term study of urban new particle formation events and their impact on cloud condensation nuclei	Lubna Dada: Influence of atmospheric conditions on pure biogenic nucleation in the CLOUD chamber
12.30 -13.00	<p style="text-align: center;">Official closing - PI Award for best student oral & poster presentations</p>	
13.00 – 14.00	Lunch (Unicafe with ICNAA coupons) & exhibition	
14.00	Optional excursion to Hyttiälä	
15.30	Optional excursion to local brewery Stadin Panimo	