

7<sup>th</sup>

International Conference on  
Recrystallization and Grain Growth

ReX & GGG

**FINAL PROGRAMME**

August ④ ⑤ ⑥ ⑦ ⑧ ⑨ **2019**

**BELGIUM**

GHENT 'HET PAND'

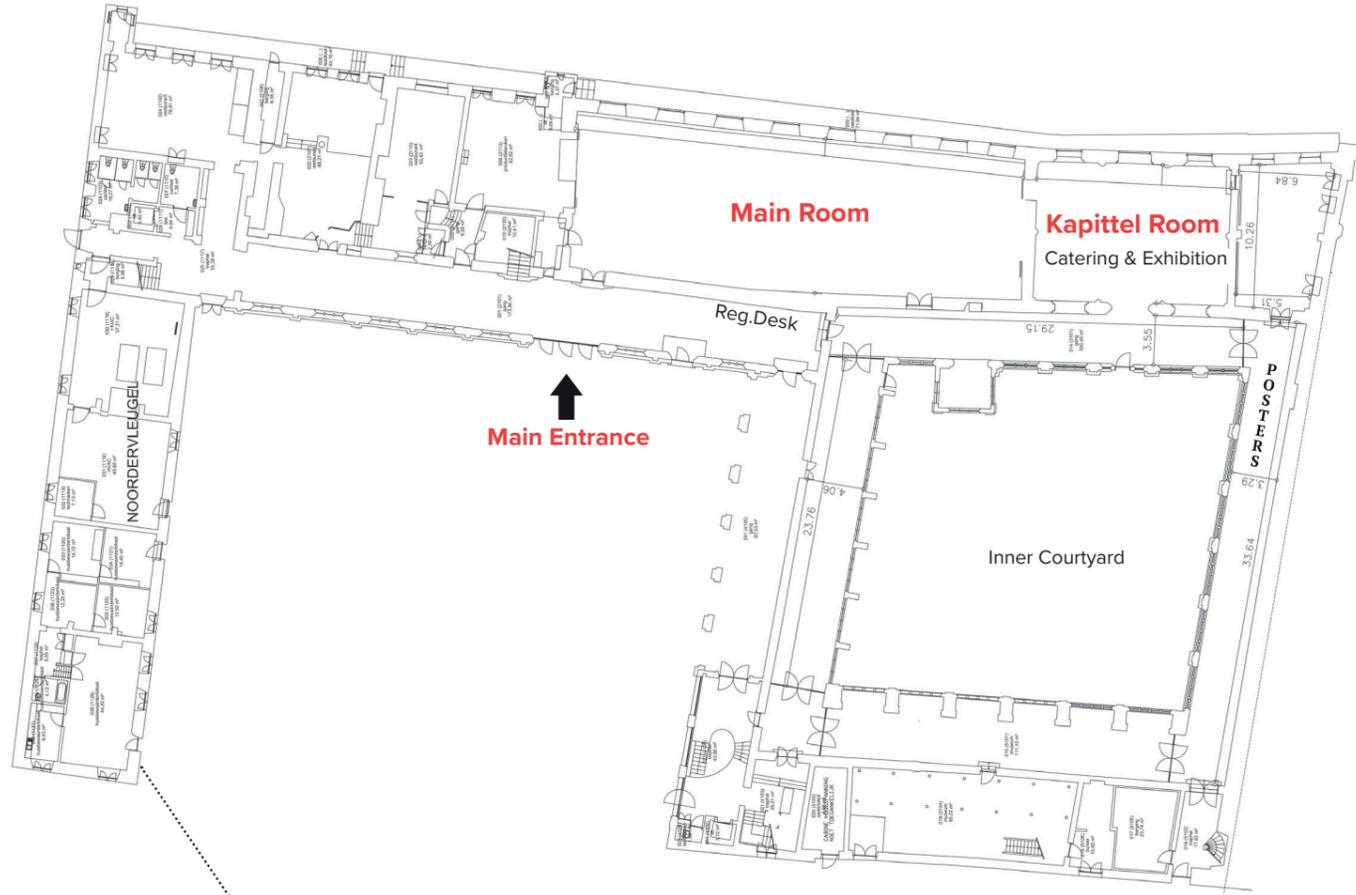
[www.rexgg2019.org](http://www.rexgg2019.org)

**ReX&GG**  
Ghent  
2019

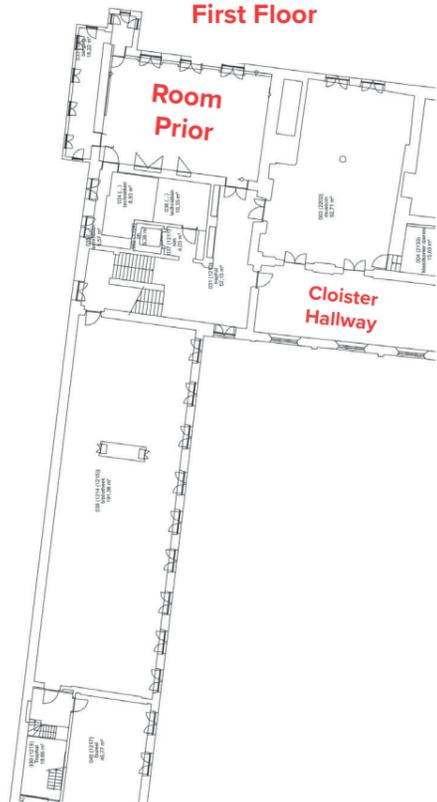


# Floor Plans Het Pand

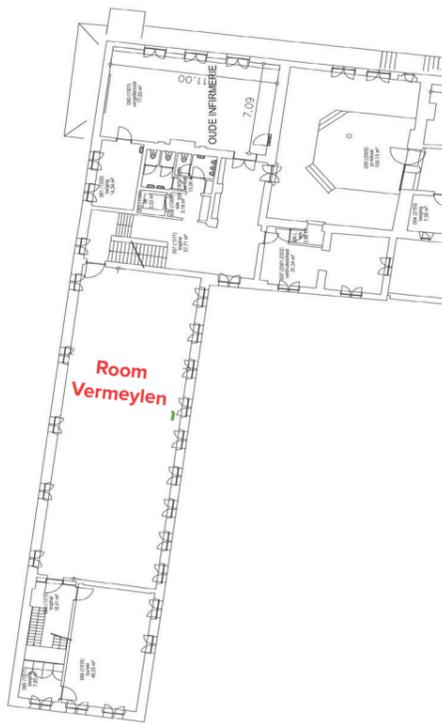
## Ground Floor



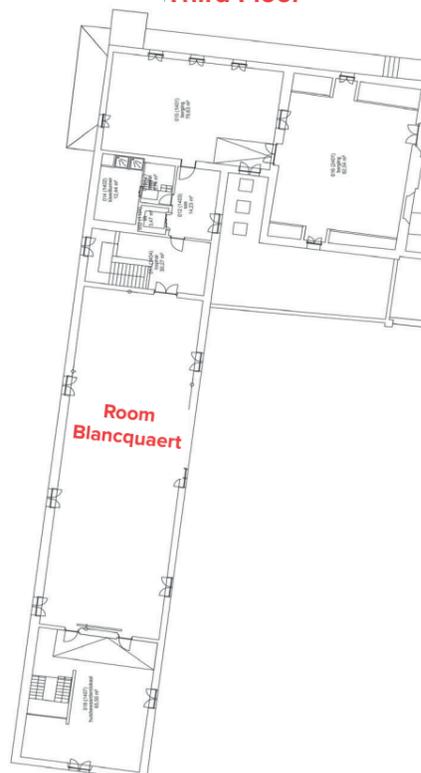
## First Floor



## Second Floor



## Third Floor



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## Committees

### ORGANISING COMMITTEE

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Knut Marthinsen, Norway  
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Dimitri Molodov, Germany  
Eric Palmiere, United Kingdom  
Elena Pereloma, Australia  
Paulo Rios, Brazil  
A.D. (Tony) Rollett, USA  
David J. Srolovitz, USA  
Nobuhiro Tsuji, Japan  
Kohsaku Ushioda, Japan

## Welcome Address

The **Seventh International Conference on Recrystallization and Grain Growth** is the continuation of a conference series that was initiated in 1990 with Recrystallization '90, organised in Wollongong, followed in 1991 by 'Grain Growth in Polycrystalline Materials', organised in Rome. Since 2001, both conference series were merged with the organisation of the '1<sup>st</sup> International Conference on Recrystallization and Grain Growth' in Aachen, which has ever since been a regularly recurring tri-annual event.

During the three decades that have passed since its launch, this conference series has shaped an active and versatile research community with active participation from fundamental and applied research groups and industrial R&D organisations. Recrystallization and grain growth are defining factors in shaping the microstructure of both structural and functional polycrystalline materials, metals and non-metals alike, and therefore of paramount importance for a wide variety of microstructurally sensitive material properties. Thus, an intensive and mutual fruitful collaboration has emerged between applied R&D groups, often associated with industrial organisations, and more fundamentally oriented scientists. Other scientific fields, such as geology, mineralogy and archeology have increasingly studied microstructures that ensue from thermally activated processes such as recrystallization and grain growth, which may provide clues as to how materials were created and what circumstances prevailed during their history.

A more detailed understanding of the basic mechanisms of recrystallization and grain growth also contributes to the development of new materials with improved and more versatile functional properties. For newly emerging processing technologies, such as additive manufacturing, a better knowledge on recrystallization and grain growth, particularly in far out-of-equilibrium conditions, is of crucial importance for microstructural control of 3D printed metal objects and hence for the successful introduction of additive manufacturing to all its potential markets.

Microstructures of polycrystalline materials, and by consequence microstructural control, are intricately complex. Better characterization techniques to probe deeper and more extensively into the world of crystals, crystal orientations, grain boundaries, interfaces, dislocations and various other types of lattice defects, continue to have large impact on the field, with the large scale application of orientation contrast microscopy and 3D characterization techniques as two of the most emblematic examples.

The data sets generated by advanced characterization techniques are ideally suited to be explored by data analytics and machine learning, which may give rise to the observation of specific patterns or correlations that can be confronted with newly developed theoretical insights.

All the aforementioned aspects of the field are well represented at the **7<sup>th</sup> International Recrystallization and Grain Growth Conference**, organised at Ghent University from August 4<sup>th</sup> through 9<sup>th</sup>, 2019, with over 250 delegates attending from more than thirty countries.

We are confident that the conference will offer a comprehensive update on the endlessly fascinating field of Recrystallization and Grain Growth.

Leo A.I. Kestens  
Hadi Pirgazi  
Tuan Nguyen Minh  
Roumen H. Petrov

## Monday 5 August

08.00 Opening Registration Desk

### Opening of the ReX&GG Conference

Main Room

08.30 **Official Opening of the Conference**  
Leo Kestens, Chair of the Organising Committee

08.35 **Welcome Address**  
Patrick De Baets, Dean of the Faculty of Engineering and Architecture, Ghent University

### C.S. Smith Ceremony

08.45 **Presentation of the C.S. Smith Award**  
Giuseppe Abbruzzese, Chair of the International Committee

08.50 **Introduction to the C.S. Smith Award Keynote Lecture**  
Knut Marthinsen, Norway

### C.S. Smith Award Recipient Keynote Lecture

Main Room

09.00 **An overview and prognosis of recrystallization and grain growth (K1)**  
Tony Rollett, USA

10.00 Coffee Break and Exhibition

Kapittel Room

	<b>Session 1A – Room Blancquaert Deformation Structures</b> Chair: Niels Hansen, Denmark	<b>Session 1B – Room Vermeylen Electrical Steels</b> Chair: Nongmoon Hwang, South Korea	<b>Session 1C – Room Prior Characterization</b> Chair: Dorte Juul Jensen, Denmark	<b>Session 1D – Main Room Steels</b> Chair: Roumen Petrov, Belgium
10.30	<b>Grain fragmentation and its impact on texture evolution, work hardening and nucleation of recrystallization: A mesoscale statistical modelling approach (Invited I1)</b> Marc Seefeldt, Belgium	<b>Quasi in-situ EBSD characterization of the evolution of texture and microstructure in non-oriented electrical steels during cold rolling and annealing (Invited I2)</b> Youliang He, Canada	<b>Fast characterization and analysis at DiffAbs beamline, Synchrotron SOLEIL (Invited I3)</b> Cristian Mocuta, France	<b>Use of data science to predict recrystallisation kinetics in cold rolled HSLA steels (Invited I4)</b> Arunim Ray, Belgium
11.00	<b>Determination and validation of BCC crystal plasticity parameters for a wide range of temperatures and strain rates (O1)</b> Karo Sedighianin, The Netherlands	<b>Retaining {100} fibre texture in electrical steel via strain-induced boundary migration recrystallisation (O4)</b> Mo Ji, UK	<b>In-situ synchrotron diffraction study of the hot deformation behaviour of Zr2.5 Nb (O7)</b> Christopher Daniel, UK	<b>Incorporation of crystallographic orientations in the modelling of the Fe-γ to Fe-α phase transformation using a cellular automata model (O10)</b> Jesus Galan-Lopez, The Netherlands
11.20	<b>Deformation microstructure and microtexture in nickel microwires drawn to high strains (O2)</b> Abhinav Arya, India	<b>The formation of the {100} crystal orientation in non-oriented electrical steel after inclined cold rolling and annealing (O5)</b> Mehdi Mehdi, Canada	<b>Nondestructive texture measurement methods for centreless X-ray diffractometers (O8)</b> Valeria Mertinger, Hungary	<b>Texture evolution and mechanical behavior of a warm rolled and annealed UNS S32205 duplex stainless steel (O11)</b> Dagoberto Santos, Brazil
11.40	<b>Dislocation substructures in cold deformed pure tantalum (O3)</b> Jules Baton, France	<b>Effect of hot band annealing on texture and grain size distribution of primary recrystallization in grain-oriented silicon steel (O6)</b> Kyung-jun Ko, Korea	<b>Study of particle stimulated nucleation in Al-1%Si material with laboratory diffraction contrast tomography (O9)</b> Jun Sun, Denmark	<b>Microstructural evolution in a 980 MPa cold rolled steel with hole expansion requirements (O12)</b> Marcus Arruda, Brazil

12.00 Lunch Break

Main Room

13.30 - 14.15 **Keynote Lecture 2**  
**Secondary recrystallization in grain-oriented electrical steel (K2)**

Yoshiyuki Ushigami, Japan

	<b>Session 2A – Room Blancquaert Deformation Structures</b> Chair: Marc Seefeldt, Belgium	<b>Session 2B – Room Vermeylen Electrical Steels</b> Chair: Youliang He, Canada	<b>Session 2C – Room Prior Characterization</b> Chair: Hadi Pirgazi, Belgium	<b>Session 2D – Main Room Steels</b> Chair: Jesus Galan-Lopez, The Netherlands
14.20	<b>Interaction between dislocations and migrating triple junctions during recovery of heavily deformed metals (Invited I5)</b> Tianbo Yu, Denmark	<b>Abnormal grain growth induced by sub-boundary enhanced solid-state wetting (Invited I7)</b> Nongmoon Hwang, South Korea	<b>Recrystallization in 4D (Invited I8)</b> Dorte Juul Jensen, Denmark	<b>Early stage of recrystallization of an IF steel: experiments and simulations (Invited I9)</b> Francis Wagner, France
14.50	<b>Effect of dislocation microstructure on recrystallization kinetics in metals: Phase field modeling and LRUS experiments (O13)</b> Anter El-Azab, USA	<b>Solute drag effect of Sn during static recrystallization in Fe-Si alloys: Experimental observations and modelling (O15)</b> Myriam Dumont, France	<b>High temperature sample environments for in situ neutron diffraction at iMATERIA and time resolving in situ measurement of texture (O18)</b> Yusuke Onuki, Japan	<b>Numerical simulation and experimental validation of precipitation and recrystallization behavior during hot compression of ferritic steel (O21)</b> Sung-Ho Kim, South Korea
15.10	<b>What governs grain size and shape of metals after severe strains? (O14)</b> Oliver Renk, Austria	<b>Cold rolling reduction dependence of the recrystallization texture of 3% Si non-oriented electrical steel (O16)</b> Seil Lee, South Korea	<b>Diffraction Contrast Tomography on a Laboratory system (LabDCT): A new tool for the 4D study of grain growth and recrystallization studies (O19)</b> Erik Lauridsen, Denmark	<b>Effect of aging on the microstructural evolution in a new design of maraging steels with carbon (O22)</b> Peng Gong, UK
15.30	<b>Annealing behavior of heterogeneous structure in deformed aluminium (Invited I6)</b> Niels Hansen, Denmark	<b>Effect of surface substance on recrystallization and grain-growth behavior of {001} deformation texture in platelet iron particles (O17)</b> Satoshi Motozuka, Japan	<b>Reverse engineering the kinetics of grain growth from time-resolved 3DXRD measurements (O20)</b> Carl Krill, Denmark	<b>Influence of micro-alloying elements on the austenite grain size and austenite decomposition of cold-rolled low alloy steels under ultrafast heating (O23)</b> Eliseo Hernández Durán, Chile
15.50				
16.00				

15.50 Coffee break and Exhibition

Kapittel Room

	<b>Session 3A – Room Blancquaert Severe Plastic Deformation</b> Chair: Tianbo Yu, Denmark	<b>Session 3B – Room Vermeylen Electrical Steels</b> Chair: Leo Kestens, Belgium	<b>Session 3C – Room Prior Characterization</b> Chair: Cristian Mocuta, France	<b>Session 3D – Main Room Steels</b> Chair: Francis Wagner, France
16.20	<b>Self-annealing of high purity copper processed by high pressure torsion (O24)</b> Khaled Al-Fadhlah, Kuwait	<b>The role of prior grain orientation on the static recrystallization of solute added single-phase Fe-Si-Sn alloys (O26)</b> Nikolas Mavrikakis, France	<b>Quantitative characterization of grain growth in polycrystalline nickel using three-dimensional X-ray microscopy (O29)</b> Aditi Bhattacharya, USA	<b>Recrystallization texture in high strength steels (O32)</b> Sabavath Janakiram, India
16.40	<b>Effect of large strain cold and warm rolling on the microstructure and texture of ultrafine pearlitic steel (O25)</b> Sankaran Narayanaswamy, India	<b>Recrystallization behavior of {311} in {100} (O27)</b> Natsuko Sugiura, Japan	<b>Three-dimensional characterization of deformed microstructure in cold-rolled interstitial-free steel (O30)</b> Hadi Pirgazi, Belgium	<b>An ultrafine-grained steel with TWIP and TRIP effect (O33)</b> Junheng Gao, UK
17.00	<b>Dynamic recrystallization in the steady state of grain refinement during severe plastic deformation (Invited I10)</b> Laszlo S. Toth, France	<b>Texture competition and control in body-centered cubic metallic materials (O28)</b> Yuhui Sha, P.R. China	<b>Determination of static recrystallization and recovery model parameters for steel by fitting to stress relaxation data (O31)</b> Aarne Pohjonen, Finland	<b>Recrystallization of a niobium-stabilized austenitic stainless steel (O34)</b> Nicolas Cliche, France
17.20				
17.30				

18.00 **Welcome Reception at the Town Hall** (see page 25)

19.00 End of Day 1

## Tuesday 6 August

08.00 Opening Registration Desk

### Keynote Lecture 3

08.30 - 09.15 **Effect of stacking fault energy on the evolution of recrystallization texture in face centered cubic materials (K3)**

Satyam Suwas, India

Main Room

	<b>Session 4A – Room Blancquaert Severe Plastic Deformation</b> Chair: Laszlo Toth, France	<b>Session 4B – Room Vermeylen Electrical Steels</b> Chair: Brigitte Bacroix, France	<b>Session 4C – Room Prior Characterization</b> Chair: Andy Godfrey, China	<b>Session 4D – Main Room Steels</b> Chair: Marc Bernacki, France
09.20	<b>Microstructure of accumulative roll bonded high purity aluminium laminates (Invited I11)</b> Werner Skrotzki, Germany	<b>Deformation structures and recrystallization behavior in a cold-rolled bicrystal of Fe-Al alloy (Invited I12)</b> Tatsuya Morikawa, Japan	<b>On-axis Transmission Kikuchi Diffraction on the SEM - Performances and applications (Invited I13)</b> Emmanuel Bouzy, France	<b>Analysing mobility from austenite grain growth data (Invited I14)</b> Winfried Kranendonk, The Netherlands
09.50	<b>Miniature tensile testing of SPD processed fine-grained aluminium (O35)</b> Harishchandra Lanjewar, Belgium	<b>Recrystallization behavior of <math>\alpha</math>-fiber in heavily cold-rolled Fe-3%Si alloy (O37)</b> Masato Yasuda, Japan	<b>Multiscale mapping of recrystallization microstructure with X-ray microscopy (O39)</b> Mustafacan Kutsal, France	<b>Recrystallisation kinetics of plain carbon steels containing dilute Nb additions (O41)</b> Bhushan Rakshe, UK
10.10	<b>Crystallographic fiber texture formed by shot-peening and heat treatment for pure iron (O36)</b> Hisashi Sato, Japan	<b>Effect of tin addition on cold rolled and recrystallization texture in 3%Si-Fe (110) [001] single crystal (O38)</b> Shinji Yamamoto, Japan	<b>Recent developments in high speed, high angular resolution EBSD and implications for characterising the processes of grain growth and recrystallization (O40)</b> Haithem Mansour, France	<b>Development and industrial applying of the model of austenite grain size evolution in Nb-microalloyed pipe steels (O42)</b> Andrey Chastukhin, Russia

10.30 Coffee Break and Exhibition

Kapittel Room

11.00	<b>Session 5A – Room Blancquaert Grain Boundaries</b> Chair: Dmitri Molodov, Germany	<b>Session 5B – Room Vermeylen Electrical Steels</b> Chair: Tatsuya Morikawa, Japan	<b>Session 5C – Room Prior Characterization</b> Chair: Wolfgang Pantleon, Denmark	<b>Session 5D – Main Room Processing and Application</b> Chair: Winfried Krakendonk, The Netherlands
	<b>Three dimensional microstructure observations of grain coarsening and the extraction of grain boundary properties (Invited I15)</b> Gregory Rohrer, USA	<b>Effects by different microstructure and texture of hot band on the evolution of microstructure and texture after cold rolling and final annealing of ferritic FeSi steels (Invited I16)</b> Juergen Schneider, Germany	<b>Study of stress induced twinning and martensite growth mechanisms by in situ HR-EBSD during micro-mechanical testing (Invited I17)</b> Xavier Maeder, Switzerland	<b>On the recrystallisation mechanisms during advanced thermo-mechanical processing of HSLA steels with hierarchical microstructures (Invited I18)</b> Sophie Primig, Australia
11.30	<b>Interaction mechanisms between grain boundaries and nanoscale coherent particles (O43)</b> Bingbing Zhao, P.R. China	<b>The enigmatic recrystallization texture component {311}&lt;136&gt; (O46)</b> Leo Kestens, Belgium	<b>Adding a new bright field imaging capability to an on-axis TKD detector (O49)</b> Alice Bastos S. Fanta, Denmark	<b>A study of static recrystallization behaviour of cast Alloy 825 after hot-compressions (O52)</b> Munir Al-Saadi, Sweden
11.50	<b>A three-dimensional study of the grain boundary networks in conventional and grain boundary engineered 316L stainless steels (O44)</b> Shuang Xia, P.R. China	<b>Phase transformation in electroformed Invar (O47)</b> Yong Bum Park, South Korea	<b>Novel applications of centreless X-ray diffractometers for nondestructive pole figure measurements (O50)</b> Máté Sepsí, Hungary	<b>Ultra fast annealing of advanced high strength steel: The influence of delayed recrystallization on microstructure and mechanical behaviour (O53)</b> Florian Verduyssen, Belgium
12.10	<b>An application of graph theory to analyze the ring structure of nanoporous gold (O45)</b> Markus Zieher, Germany	<b>Effects of laser treatments on evolutions of microstructures and textures in electrical steels (O48)</b> Tuan Nguyen-Minh, Belgium	<b>Recovery and recrystallization study of an Al-3wt%Mg alloy (AW5754) using a unique combination of quantitative difference-dilatometry and electron backscatter diffraction (O51)</b> Wolfgang Sprengel, Austria	<b>Recrystallization of the lath martensite and deformed ferrite in a cold-rolled dual-phase steel (O54)</b> Chengwu Zheng, P.R. China

12.30 Lunch Break

14.00 - 14.20 **Commemorative Session 1**  
Tribute in memory of Julian Driver  
Roger Doherty, USA (Video Talk)

Main Room

#### Keynote Lecture 4

14.20 - 15.05 **Grain sizes and dislocation densities in FCC-metallic materials processed by warm working (K4)**  
Andrey Belyakov, Russia

Main Room

15.10	<b>Session 6A – Room Blancquaert Theory and Simulation</b> Chair: Matthias Militzer, Canada	<b>Session 6B – Room Vermeylen Electrical Steels</b> Chair: Juergen Schneider, Germany	<b>Session 6C – Room Prior Characterization</b> Chair: Xavier Maeder, Switzerland	<b>Session 6D – Main Room Processing and Application</b> Chair: Sophie Primig, Australia
	<b>Modelling recrystallization textures driven by intragranular fluctuations implemented in the viscoplastic self-consistent (Invited I19)</b> Marko Knezevic, USA	<b>Influence of additional shear components during cold rolling of Fe-Si steels on the stored energy and subsequent grain growth during final annealing (Invited I21)</b> Brigitte Bacroix, France	<b>In-situ studies of the onset of dynamic recrystallization in magnesium alloy AZ31 during warm deformation (Invited I22)</b> Andy Godfrey, P.R. China	<b>Towards the full modeling of microstructure evolutions during metal forming industrial processes (Invited I23)</b> Marc Bernacki, France
15.40	<b>Prediction of nucleation sites for recrystallization from crystal plasticity simulations (O55)</b> Vitesh Shah, Germany	<b>Secondary recrystallization induced by composite precipitates in magnetostrictive Fe-Ga thin sheets (O57)</b> Zhenghua He, P.R. China	<b>Dislocation recovery and low angle boundary migration by combined in-situ annealing and orientation mapping in the transmission electron microscope (O60)</b> Håkon Wiik Ånes, Norway	<b>Interactions between recrystallization and phase transformation in cold-rolled low carbon steel under continuous annealing (O63)</b> Filipe Castro, Chile
16.00	<b>Developing a robust crystal plasticity-phase field model to study growth kinetics and topological evolution of dynamically recrystallized grains during hot deformation (O56)</b> Supriyo Chakraborty, USA	<b>Simulation on the evolution of inhibitors during high temperature annealing of grain-oriented silicon steel (O58)</b> Haiwen Luo, P.R. China	<b>Semi in-situ measurements of thermomechanical fatigue in cast iron (O61)</b> Edwin Lopez, Belgium	<b>Finite element simulation of the static recrystallization and grain growth occurring between roughing passes (O64)</b> Oskari Seppälä, Finland
16.20	<b>Grain growth and mixed control process of atom transport (Invited I20)</b> Suk-Joong Kang, South Korea	<b>Microstructure evolution in grain oriented electrical steel during processing and its correlation with GOSS abnormal grain growth (O59)</b> Ali Nadoum, UK	<b>Quantification of boundary mobility based on in/ex situ 2D and 3D recrystallization studies (O62)</b> Yubin Zhang, Denmark	<b>The effect of niobium on austenite evolution during hot rolling of advanced high strength steel (O65)</b> Ali Smith, Italy
16.40				
16.50				

16.40 Coffee Break and Exhibition

Kapittel Room

#### Poster Session 1 and Beer Happy Hour

17.10 Presenters of Posters P1-P25 are invited to be available at their posters for Q&A

Cloister Hallway

18.30 End of Day 2

08.00 Opening Registration Desk

## Keynote Lecture 5

08.30 - 09.15 **Applying electron microscopy techniques to study static, dynamic and metadynamic recrystallisation in austenite (K5)**  
Elena Pereloma, Australia

Main Room

	Session 7A - Room Prior Theory and Simulation Chair: Tomohiro Takaki, Japan	Session 7B - Room Vermeylen Texture Chair: Dana Zöllner, Germany	Session 7C - Room Blancquaert Characterization Chair: David Prior, New Zealand	Session 7D - Main Room Processing and Application Chair: Mahesh Somani, Finland
09.20	<b>Intergranular elastic interaction and corresponding orientation stability during deformation and recovery annealing of metal sheets (Invited I24)</b> Weimin Mao, P.R. China	<b>Formation of texture improving Young's modulus along rolling direction in surface area of hot rolled low carbon sheet steel (Invited I26)</b> Naoki Yoshinaga, Japan	<b>The effect of stacking faults on acoustic anisotropy of the Earth's inner core (Invited I27)</b> Stefaan Cottenier, Belgium	<b>Microstructural and property correlation in ultra high strength bainitic steel in hot and cold rolled conditions (Invited I28)</b> Arunansu Haldar, India
09.50	<b>Simulation of continuous and simultaneous recrystallization, recovery and grain growth in Cellular-Automata (O66)</b> Konstantina Traka, The Netherlands	<b>Recrystallization and texture evolution in cold-rolled and annealed (110) Fe-3%Si single crystal (O67)</b> Tesshu Murakawa, Japan	<b>In-situ investigation of austenite grain growth kinetics of carburizing steels by laser-ultrasonics (O69)</b> Kemal Davut, Turkey	<b>Effect of thermomechanical parameters on grain growth and recrystallization during grain boundary engineering of austenitic stainless steel (O71)</b> Shun Tokita, Japan
10.10	<b>Phase field simulation of grain growth with mobility distributions (Invited I25)</b> Matthias Militzer, Canada	<b>Development of cube-on-face texture in Fe-Si electrical steel induced by contact with dissimilar materials during heat treatment (O68)</b> Yongkeun Ahn, South Korea	<b>Texture modification through annealing and recrystallization in the Earth's upper mantle (O70)</b> Yuval Boneh, Israel	<b>Double twist torsion testing to determine the non-recrystallization temperature (O72)</b> Trevor Ballard, USA
10.30				
10.40				

10.30 Coffee Break and Exhibition

Kapittel Room

## Keynote Lecture 6

11.00 - 11.45 **A disconnection-based approach to grain boundary migration and grain growth (K6)**  
David Srolovitz, Hong Kong

Main Room

	Session 8A - Room Prior Theory and Simulation Chair: Weimin Mao, China	Session 8B - Room Vermeylen Texture Chair: Naoki Yoshinaga, Japan	Session 8C - Room Blancquaert Non-Ferrous Chair: Jurij Sidor, Hungary	Session 8D - Main Room Processing and Application Chair: Arunansu Haldar, India
11.50	<b>Multi-phase-field lattice Boltzmann simulations from dendrite growth with motion to grain growth (Invited I29)</b> Tomohiro Takaki, Japan	<b>Unraveling the complex interaction of morphogenesis and texture in marine shells (Invited I30)</b> Dana Zöllner, Germany	<b>Residual stress evolution in aluminum: The defining role of dislocation substructure (Invited I31)</b> Indradev Samajdar, India	<b>On the recrystallization characteristics and kinetics of two high-Si DQ&amp;P steels (Invited I32)</b> Mahesh Somani, Finland
12.20	<b>Influence of grain boundary energy anisotropy on the evolution of grain boundary network structure during anisotropic grain growth (O73)</b> Jose Nino, USA	<b>Transitions in crystallographic preferred orientation patterns in experimentally sheared ice (O75)</b> Chao Qi, P.R. China	<b>Effect of heat treatment on phase composition and mechanical properties of Al-Cu-Mn-Zr wire alloy (O77)</b> Nikolay Belov, Russia	<b>Preferred orientation formation in surface layer of aluminum sheet subjected to friction roll surface processing and temperature gradient annealing (O79)</b> Yoshimasa Takayama, Japan
12.40	<b>3D phase-field simulation of abnormal grain growth due to the dissolution of second-phase particles (O74)</b> Yoshihiro Suwa, Japan	<b>Evolution of microstructure, texture and grain boundary character distribution of potassium doped tungsten fibers with variable annealing temperatures (O76)</b> Leandro Tanure, Belgium	<b>Microstructure and deformability of "Eutectic Composites" based on the Al-Ca-Ni-REM (Ce, La, Pr) systems (O78)</b> Evgeniya Naumova, Russia	<b>Recrystallization and grain growth under electric current in metallic materials (O80)</b> Ju-Won Park, South Korea

13.00 Lunch provided for participants of the Excursion to Bruges

Kapittel Room

13.30 Departure to Bruges by bus

14.15 - 18.15 **Guided Visit of Bruges** (see page 26)

18.15 Departure to Ghent by bus

19.00 End of Day 3

## Thursday 8 August

08.00 Opening Registration Desk

### Keynote Lecture 7

08.30 - 09.15 Exploring the microstructures in Vein-Quartz of the High-Ardenne slate belt (K7)

Manuel Sintubin, Belgium

Main Room

	Session 9A – Room Prior Theory and Simulation Chair: Giuseppe Abbruzzese, Italy	Session 9B – Room Vermeylen Texture Chair: Tuan Nguyen-Minh, Belgium	Session 9C – Room Blancquaert Non-Ferrous Chair: Nathalie Bozzolo, France	Session 9D – Main Room Processing and Application Chair: Matthew Barnett, Australia
09.20	<b>On stress driven grain boundary motion and evaluation of boundary migration - shear coupling (Invited I33)</b> Dmitri Molodov, Germany	<b>Microstructure and texture in heavily rolled and annealed Al-0.3%Cu (Invited I35)</b> Oleg Mishin, Denmark	<b>The importance of recrystallization in the aluminium manufacturing industry (Invited I36)</b> Olaf Engler, Germany	<b>Observation of grain growth in U10%Mo alloy (Invited I38)</b> David Field, USA
09.50	<b>Level set simulation of grain growth under fully anisotropic grain boundary energy (O81)</b> Håkan Hallberg, Sweden	<b>Influences of cold rolling, recrystallization and surface effect on the transformation textures in pure titanium (O82)</b> Ping Yang, P.R. China	<b>Heterogeneous structure controlled by shear bands in partially recrystallized nano-laminated copper (O84)</b> Yao Jiang, P.R. China	<b>Phase-field simulation of solid-state sintering (O85)</b> Johannes Hötzer, Germany
10.10	<b>Grain growth kinetics by large-scale molecular dynamics simulation (Invited I34)</b> Yasushi Shibuta, Japan	<b>Effect of alloying addition on evolution of recrystallization texture in a face centered cubic material (O83)</b> Gyan Shankar, India	<b>Coupled primary and secondary recrystallization in single tungsten fiber-reinforced tungsten composites (Invited I37)</b> Wolfgang Pantleon, Denmark	<b>Effect of localised laser heat treatments on the microstructure of a FeNi steel (O86)</b> Hubert Breukelman, The Netherlands
10.30				
10.40				

10.30 Coffee Break and Exhibition

Kapittel Room

	Session 10A – Room Prior Theory and Simulation Chair: Yasushi Shibuta, Japan	Session 10B – Room Vermeylen HCP Materials Chair: Daolun Chen, Canada	Session 10C – Room Blancquaert Non-Ferrous Chair: Olaf Engler, Germany	Session 10D – Main Room Processing and Application Chair: David Field, USA
11.00	<b>Limit conditions for the onset of abnormal grain growth in a homogeneous microstructure: Theory and experiments (Invited I39)</b> Giuseppe Abbruzzese, Italy	<b>Microstructure evolution during hot rolling and beta annealing of alpha-beta Zr and Ti alloys (Invited I40)</b> Joao Quinta da Fonseca, UK	<b>Effect of thermomechanical processing parameters on recrystallization texture and plastic strain ratio in Al alloys (Invited I41)</b> Jurij Sidor, Hungary	<b>3D microstructure design by combining Selective Laser Melting with Laser Shock Peening (Invited I43)</b> Roland Logé, Switzerland
11.30	<b>Fractal abnormal grain growth in nanocrystalline Pd90Au10: an experimental study of factors influencing interface fractality (O87)</b> Christian Braun, Germany	<b>Recrystallization of cladding tubes from Zr-based alloys for nuclear reactors (O90)</b> Margarita Isaenkova, Russia	<b>Hot deformation of AA6082: Is CDRX or GDRX the predominant recrystallization mechanism? (O93)</b> Friedrich Krumpal, Austria	<b>Interface microstructure of explosively welded copper-stainless steel clads (O95)</b> Colin Merriman, USA
11.50	<b>Fractal abnormal grain growth in nanocrystalline Pd90Au10: a simulation study comparing sible mechanisms (O88)</b> Raphael Zeller, Germany	<b>Relationship between flow stress and dynamic grain size in titanium alloys in a wide temperature interval (O91)</b> Sergey Zherebtsov, Russia	<b>Multimodal imaging in 4D: Shining new light on grain growth in the presence of particles (O94)</b> Ashwin Shahani, USA	<b>Effect of Cr and C on microstructure evolution of medium carbon steels during friction stir welding process and their mechanical property (O96)</b> Kota Kadoi, Japan
12.10	<b>Using Phase-field Simulations for Understanding and Extending Mean-filed Models of Grain Growth (O89)</b> Reza Darvishi Kamachali, Germany	<b>Characterization and modeling of abnormal grain growth and texture evolution during beta-annealing of Ti-6Al-4V forgings (O92)</b> Eric Payton, USA	<b>Grain coarsening behaviour of solution annealed Alloy 625 between 600–800°C (Invited I42)</b> Eric Palmiere, UK	<b>The assessment of growth kinetics in the intermetallic layers of Al-AlxNi<sub>y</sub>-Ni laminate composite (O97)</b> Monireh Azimi, Iran
12.30				
12.40				

12.30 Lunch Break

14.00 - 14.20 **Commemorative Session 2**  
Tribute in memory of Lasar Shvindlerman

Günter Gottstein, Germany

Main Room

### Keynote Lecture 8

14.20 - 15.05 **The roles of computational materials science in recrystallization and grain growth (K8)**  
Elizabeth Holm, USA

Main Room

	<b>Session 11A – Room Blancquaert Dynamic Recrystallization</b> Chair: Hiromi Miura, Japan	<b>Session 11B – Room Vermeylen HCP Materials</b> Chair: Joao Quinta da Fonseca, UK	<b>Session 11C – Room Prior Superalloys</b> Chair: Eric Palmiere, UK	<b>Session 11D – Main Room Processing and Application</b> Chair: Roland Logé, Switzerland
15.10	<b>Dynamic recrystallisation and ice sheet dynamics (Invited I44)</b> David Prior, New Zealand	<b>Recrystallization of titanium: Deformation twinning induced recrystallization (Invited I45)</b> Daolun Chen, Canada	<b>Usual and unusual recrystallization phenomena in Ni based superalloy forgings (Invited I46)</b> Nathalie Bozzolo, France	<b>Influence of recrystallization on gouging wear of Ni-Co alloys (Invited I47)</b> Matthew Barnett, Australia
15.40	<b>Deformation microstructures and dynamic recrystallization in Nickel heavily deformed by torsion at various temperatures (O98)</b> Reza Gholizadeh, Japan	<b>The role of recrystallization temperature in determining textural evolution during grain growth in Mg alloy AZ31B (O101)</b> Matthew Steiner, USA	<b>Influence of a secondary phase on dynamic recrystallization of the nickel-base superalloy ATI 718Plus® (O104)</b> Christiane Kienl, UK	<b>Effects of operating temperature and addition of impurity elements on microstructural evolution of Ag during friction stir welding (O107)</b> Tomoya Nagira, Japan
16.00	<b>Influence of deformation mode on dynamic recrystallization behaviour of nickel (O99)</b> Subramanya Sarma, India	<b>Growth evolution of recrystallised grains in a Mg-2%Zn-0.2%Ce alloy during annealing (O102)</b> Dikai Guan, UK	<b>Consideration of recrystallization modelling of <math>\gamma/\gamma'</math> strengthened Ni-based superalloys on sub-solvus temperature (O105)</b> Takashi Nishimoto, Japan	<b>Effects of thermal history on microstructural evolution of Ti-6Al-4V during electron beam melting (O108)</b> Ryan DeMott, Australia
16.20	<b>The operative dynamic recrystallization mechanisms of austenite during the transient deformation in a Ni-30%Fe model alloy (O100)</b> Wenxiong Chen, China	<b>Textured growth of AlN films deposited by DC reactive magnetron (O103)</b> Abdelhak Ayad, Algeria	<b>Strain rate influence on dynamic recrystallization kinetics of Inconel 718 (O106)</b> Alexis Nicolaj, France	<b>Correlative multiscale tomography for additively manufactured components (O109)</b> Daniel Phifer, The Netherlands

16.40 Coffee Break and Exhibition

Kapittel Room

17.10 **Poster Session 2 and Wine Happy Hour**

Cloister Hallway

Presenters of Posters P26-P49 are invited to be available at their posters for Q&A

18.30 End of Day 4

19.30 **ReX&GG 2019 Conference Dinner** (see page 26)

## Friday 9 August

08.00 Opening Registration Desk

### Keynote Lecture 9

08.30 - 09.15 **The effects (or not?) of applied fields during recrystallisation and grain growth (K9)**

Bevis Hutchinson, Sweden

Main Room

	<b>Session 12A – Room Blancquaert Dynamic Recrystallization</b> Chair: Evgueni Poliak, USA	<b>Session 12B – Room Vermeylen High Entropy Alloys</b> Chair: Nima Haghdadi, Australia	<b>Session 12C – Room Prior Superalloys</b> Chair: Shamil Mukhtarov, Russia	<b>Session 12D – Main Room Processing and Application</b> Chair: Eugen Rabkin, Israel
09.20	<b>Dynamic recrystallization in 304L steel: Full field and mean field simulation results compared to experimental data (Invited I48)</b> Charbel Mousa, France	<b>Annealing effect on structure and mechanical properties of CoCrFeMnNi-type high entropy alloys with different amounts of Al and C (Invited I50)</b> Nikita Stepanov, Russia	<b>The formation and development of un-recrystallised grains in nickel based superalloy during forging (Invited I51)</b> Sorana Biroasca, UK	<b>A study on the recrystallization behaviour of AA1100 deformed by ESAR process (Invited I52)</b> Shi-Hoon Choi, South Korea
09.50	<b>A continuous dynamic recrystallization model to describe the hot deformation behaviour of a Ti5553 alloy (O110)</b> Ricardo Henrique Buzolin, Austria	<b>Recrystallization behavior of high / medium entropy alloys deformed by high pressure torsion and subsequently annealed (O111)</b> Shuhei Yoshida, Japan	<b>Multi-class approach for microstructural modeling and simulation of the grain structure evolution during thermo-mechanical processing of the Ni-base superalloy IN-718 (O113)</b> Philipp Retzl, Austria	<b>Effect of ultra-fast heat treatment on the texture and grain size of an industrial grade DP 600 steel (O115)</b> Roumen Petrov, Belgium
10.10	<b>Dynamic recrystallization behavior of Cu-Sn bicrystals (Invited I49)</b> Hiromi Miura, Japan	<b>High temperature deformation behavior of CoNiCrAlY alloy (O112)</b> Makoto Hasegawa, Japan	<b>Recrystallization mechanisms and kinetics during forging of the new nickel based superalloy VDM Alloy 780 (O114)</b> Juhi Sharma, France	<b>Temporary stagnation in the recrystallization of warm-rolled tungsten in the temperature range from 1150 °C to 1300 °C (O116)</b> Umberto Maria Ciucani, Denmark
10.30				
10.40				

10.30 Coffee Break and Exhibition

Kapittel Room

	<b>Session 13A – Room Blancquaert Dynamic Recrystallization</b> Chair: Charbel Mousa, France	<b>Session 13B – Room Vermeylen High Entropy Alloys</b> Chair: Nikita Stepanov, Russia	<b>Session 13C – Room Prior Superalloys</b> Chair: Soran Biroscu, UK	<b>Session 13D – Main Room Functional Materials</b> Chair: Shi-Hoon Choi, South Korea
11.00	<b>Transient and steady state deformation behavior during dynamic recrystallization (Invited I53)</b> Evgueni Poliak, USA	<b>Dynamic restoration mechanisms in FCC-BCC high entropy alloys (Invited I55)</b> Nima Haghdadi, Australia	<b>Grain refinement of a Re-rich nickel-based superalloy using hot deformation (Invited I56)</b> Shamil Mukhtarov, Russia	<b>Grain growth and solid-state dewetting of the bi-crystalline Ni-Fe thin films on sapphire (Invited I57)</b> Eugen Rabkin, Israel
11.30	<b>Continuous dynamic recrystallization during hot torsion of an aluminum alloy (O117)</b> Ricardo Buzolin, Austria	<b>Recrystallization texture of cold rolled CoCuFeMnNi high entropy alloy and subset binary FeMn ternary FeMnNi and quaternary FeMnNiCo alloys (O119)</b> Reshma Sonkusare, India	<b>Hot deformation behavior of a precipitate free Ni-based superalloy (O122)</b> Maria Cecilia Poletti, Austria	<b>A thermal grooving approach to examine grain-boundary energies and diffusion mechanisms during Ni coarsening in an SOFC-anode (O125)</b> Patricia Haremski, Germany
11.50	<b>Analyzing the discontinuous dynamic recrystallization of copper using physics based 3D full field model (O118)</b> Chaitali Patil, USA	<b>Influence of deformation and annealing twinning on the microstructure and texture evolution of face-centered cubic high-entropy alloys (O120)</b> Luis Barrales-Mora, Germany	<b>Study on the surface modifications of single crystal Ni-based superalloys at high temperatures (O123)</b> Dimitra Spathara, UK	<b>Characterization of carbide-reinforced composite surface layers on a ductile cast iron (O126)</b> Krzysztof Matus, Poland
12.10	<b>Role of deformation banding in continuous dynamic recrystallization (Invited I54)</b> Rustam Kaibyshev, Russia	<b>Microstructure and texture of a severely warm-rolled and annealed AlCoCrFeNi<sub>2.1</sub> eutectic high entropy alloy (O121)</b> Rajasekhar Reddy Seelam, India	<b>Time-temperature effects on the microstructure of alloy 718 rolled rings for aircrafts engines (O124)</b> Giordano Camiccia, Italy	<b>K-doped and pure cold-rolled tungsten sheets: Comparison in as-rolled condition and recrystallization behaviour after isochronal annealing at different temperatures (O127)</b> Philipp Lied, Germany
12.30				
12.40				

### Closing Address

Leo Kestens, Chair of ReX&GG 2019

12.45

13.00

End of Day 5 and of ReX&GG 2019

Main Room

## Poster List

### Electrical Steels

- P1** Grain boundary characterisation in 3% silicon steel during secondary Goss recrystallisation  
H. Beladi, V. Tari, [Bevis Hutchinson](#), G. Rohrer (Australia, Sweden & USA)
- P2** Effect of flattening reduction rate of rare earth and primary recrystallization on secondary recrystallization of Cu-oriented silicon steel  
[Zili Jin](#) (China)
- P3** Effect of sub-boundary angle magnitude on abnormal grain growth behavior in Fe-3% Si steel  
[Taeyoung Kim](#), Y. Ahn, Y. Jeong, G. Gil, N. Hwang (Korea)
- P4** Investigation on the primary and secondary recrystallization texture characteristics of the rare earth micro-alloying grain-oriented silicon steel  
[Zhongwang Wu](#), Z. Jin, R. Huiping, L. Ruixiang, L. Tao (China)
- P5** Effect of hot band annealing on texture and grain size distribution of primary recrystallization in grain-oriented silicon steel  
[Kyung-jun Ko](#), J.-T. Park, C.-H. Han (Korea)
- P6** The influence of local inhomogeneities on primary recrystallized microstructure in grain oriented electrical steels  
[Ceren Yilmaz](#), Z. Tarzimoghadam, E.A. Jäggle, D. Raabe (Germany)
- P7** Influence of grain size before cold rolling on development of main texture component in recrystallization texture of 3% Si-Fe steel sheet  
[Takeshi Imamura](#), Y. Hayakawa (Japan)

### Steels

- P8** Hot stage quasi in-situ analysis of the effect of titanium and manganese on static recrystallization of cold-rolled low carbon V and Ti-V bearing micro-alloyed steels  
[Ischwar Kapoor](#), Y. Lan, A. Rijkenberg, Z. Li, V. Janik (UK & The Netherlands)
- P9** Internal stresses of pearlitic steel monitored by in-situ neutron diffraction during phase transformation and thermal aging  
[Satoshi Morooka](#), T. Kawasaki, S. Harjo, N. Nakada, Y. Tsukada (Japan)
- P10** Microstructure development of complex phase steels during thermomechanical processing  
L.F. Romano-Acosta, [Eric J. Palmiere](#) (UK)
- P11** On the influence of  $\kappa$ -carbides on the recovery and recrystallization of a high-manganese light-weight steel  
[Frederike Brasche](#), C. Haase, M. Lipinska-Chwalek, J. Mayer, D.A. Molodov (Germany)
- P12** Comparison between experimental data and a cellular automata simulation of austenite decomposition during cooling  
[Antti Kaijalainen](#), O. Seppälä, A. Pohjonen, V. Javaheri, D. Porter, J. Kömi (Finland)
- P13** Effect of initial microstructures prior to cold-rolling and intercritical annealing on ferrite recrystallization and ferrite-to-austenite phase transformation in Nb bearing low-carbon steels  
[Toshio Ogawa](#), H. Dannoshita, Y. Adachi, K. Ushioda (Japan)
- P14** Static recrystallization behavior of Fe-4Al-1Ni ferritic steel  
[Xiangyu Xu](#), D. Liu, Q.N. Liu, X.M. Wang (China)
- P15** Microstructural and micro hardness variation during low temperature recovery annealing in C-Mn steels  
[Sabavath Janakiram](#), J. Gautam, A. Miroux, J. Moerman, L. Kestens (India, The Netherlands & Belgium)
- P16** The effect of microalloying on the prior austenite grain growth of low-carbon microalloyed slab material  
[Jaakko Hannula](#), A. Kaijalainen, D. Porter, J. Kömi (Finland)

- P17** **Effect of initial microstructure on reversely-transformed austenite grains in spring steel**  
Tomoya Nakayama, G. Saito, M. Ohno, K. Matsuura, M. Takeuchi, T. Yamaoka (Japan)
- P18** **Abnormal austenite grain growth during quasi-carburizing in Nb-alloyed case hardening steel**  
Koharu Takano, G. Saito, T. Tokunaga, M. Ohno, K. Matsuura, T. Sano, M. Takeuchi, K. Minoguchij, T. Yamaoka

### Characterization

- P19** **Novel applications of centreless X-ray diffractometers for nondestructive pole figure measurements**  
Mate Seps, V. Mertinger, M. Benke (Hungary)

### Grain Boundaries

- P20** **Estimation of anisotropic grain boundary properties through data assimilation for molecular dynamics and phase-field simulations**  
Eisuke Miyoshi, T. Takaki, M. Ohno, Y. Shibuta (Japan)
- P21** **Grain growth simulation applied to diffusion welding: Interface crossing by grain boundaries**  
Luc Védie, E. Rigal, M. Bernacki (France)

### Processing and Application

- P22** **Recrystallization and grain growth at the interface of a bimetallic colaminated strip composed of two different Fe-Ni alloys**  
Justine Poncelet, T. Baudin, M. De Oliveira, T. Waeckerlé, Y. Ateba-Betanda, F. Brisset, A.L. Helbert (France)
- P23** **The effect of steel wire cross-section reduction process on grain structure and texture**  
Athanasios Vazdirvanidis, S. Papadopoulou, A. Mastorakis
- P24** **Towards a comprehensive understanding of the role of shear bands on recrystallization texture in Ni-24W-22Fe alloy**  
Mirtunjay Kumar, A. Upadhyaya, N.P. Gurao (India)
- P25** **Influence of micro-alloying elements on the austenite grain size and austenite decomposition of cold-rolled low alloy steels under ultrafast heating**  
Eliseo Hernández Durán, T. Ros-Yanez, F.M. Castro Cerda, R.H. Petrov (Chili, USA, Belgium & The Netherlands)

### Theory and Simulation

- P26** **Phase field modeling of annealing twin nucleation, growth and interactions during grain boundary migration**  
Jeyaraam Ramanarayanan, S. Vadlamani Subramanya, S. Vedantam
- P27** **Topological transitions: A topological random walk or pure necessity?**  
P. Rios, Dana Zöllner (Germany)
- P28** **Crystal plasticity modelling of multiphase steels using the visco-plastic self-consistent model with a physical hardening law**  
Jesus Galán-López, B. Shakerifard, L.A.I. Kestens (The Netherlands & Belgium)
- P29** **A new full field framework to model grain growth in FE context**  
Sebastian Florez, T. Toulorge, M. Bernacki (France)
- P30** **Evaluation of the kinetics of recrystallization based on the scaling 1D cellular automaton by DSC measurement**  
Tamás Bubonyi, P. Barkóczy, Sz. Gyöngyösi (Hungary)
- P31** **A new full field framework to model grain and phase boundaries migration during diffusive solid/solid phase transformations and recrystallization**  
C.T. Pham, N. Bozzolo, C. Moussa, Marc Bernacki (France)
- P32** **Low and high angle grain boundaries migration using an overdamped Langevin dynamics**  
Carolina Baruffi, A. Finel, Y. Le Bouar, B. Bacroix, O.U. Salman (France & Germany)

- P33** **Comparison between nucleation laws in modelling of recrystallization textures**  
Jhon Ochoa Avendano, K. Bos, J. Galán-López, L. Kestens (Netherlands and Belgium)
- P34** **Full field modeling of dynamic recrystallization in a CPFEM context**  
David Alejandro Ruiz Sarrazola, D. Pino Muñoz, M. Bernacki (France)

### Non-Ferrous

- P35** **Recrystallization of 6xxx aluminum alloys during hot deformation**  
Saoussen Ouhiba, N. Bozzolo, L. Boissonnet, M. Bernacki (France)
- P36** **Underlying mechanisms for strengthening in annealed Ni microwires**  
Girish Bojjawar, S. Suwas, A.H. Chokshi (India)
- P37** **Influence of stresses on the annealing texture of a thin copper foil**  
Xin Li, D.P. Huang, G.L. Wu, H.F. Shi (China)
- P38** **Using DEFORM software in the simulation of 3-Axis Forging of Nb and Cu**  
Talya Levin, N. Bembridge, I. Dagwa, C. Afangideh, P.N. Kalu (USA & Nigeria)

### HCP Materials

- P39** **The effect of continuous deformation behaviors on texture formation in magnesium alloy**  
Don Keun Han, M.S. Ko, H. Fukutomi, K.H. Kim (Korea & Japan)
- P40** **Texture formation behaviors of M1 magnesium alloy during high-temperature compression deformation**  
K.J. Lee, J.H. Choi, H. Fukutomi, Kwon Hoo Kim (Korea & Japan)
- P41** **Effect of Ca concentration on behaviors of basal texture formation in AZ61 magnesium alloy**  
B.K. Choi, J.H. Lee, H. Fukutomi, Kwon Hoo Kim (Korea & Japan)
- P42** **Influence of a pre-deformation on the growth of titanium multicrystals**  
D. Chaubet, W. Beucia, P. Franciosi, Brigitte Bacroix (France)
- P43** **Effect of Ca, Y addition on recrystallization and texture evolution of Mg-Al based alloy sheets**  
Young Min Kim, S.M. Jo (Korea)
- P44** **Solute drag and texture development in Mg and Mg-Y alloys**  
Pablo Garcia-Chao, A. Orozco-Caballero, J. Quinta da Fonseca, J.D. Robson (UK, The Netherlands & Spain)

### Superalloys

- P45** **Microstructural evolution during hot compression of a Ni-base superalloy**  
Emil Eriksson, M. Hörnqvist Colliander (Sweden)
- P46** **The effect of thermomechanical processing on the microstructural evolution of nickel-based alloys**  
Christopher Martin, E.J. Palmiere, A. Barrow, M.G. Burke (UK)

### High Entropy Alloys

- P47** **Recrystallization behavior of (CoCrMnNi)50Fe50 medium entropy alloy annealed at 600 °C**  
Ibrahim Ondicho, N. Park, J.H. Shon, S. Yoshida, T. Nobuhiro (South Korea & Japan)
- P48** **Effect of one-step strain annealing on grain boundary character distribution and boundary network topology in equiatomic CrMnFeNiCo high entropy alloy**  
Thota Hemanth, J. Ramanarayanan, S. Tirunilai Aditya, A. Kauffmann, J. Freudenberger, S. Vadlamani Subramanya, M. Heilmaier (India & Germany)

### Functional Materials

- P49** **Exploring the link local heterophase crystal alignments and low-resistive Ohmic contacts on wide-bandgap nitride semiconductors**  
Filip Geenen, A. Constant, C. Mocuta, C. Peter, C. Detavernier (Belgium & France)

## Registration

### Registration fees

	On-Site Fee
<b>Participant</b>	800,00 €
<b>Student*</b>	600,00 €
<b>Partner - Full Social Programme</b>	200,00 €
Welcome Reception only (04/08)	15,00 €
Reception Town Hall only (05/08)	15,00 €
Half day Excursion to Bruges only (07/08)**	85,00 €
Conference Dinner only (08/08)**	85,00 €

\* on presentation of a student ID

\*\* if seats are still available

### The participant and student registration fees include

- Access to all scientific sessions and poster area
- Access to the industrial exhibition
- Welcome reception on Sunday 04/08, Reception at the Town Hall on Monday 05/08, half day excursion to Bruges on Wednesday 07/08 and Conference Dinner on Thursday 08/08 – Registration for the social activities is mandatory.
- Coffee breaks and Happy Hours during the Poster Tours as announced in the programme

### Payment

On-site payments are to be made cash (in Euro) or by credit card (Visa or Mastercard).

### Cancellation

Any participant cancelling his/her registration before 1 July 2019, will receive a refund, less 100,00 Euro covering administration costs. No refunds are made after this date.

## Social Activities

### Sunday 4 August

#### 17.00 - 19.00 hrs - Welcome Drink

A Welcome Drink is offered to all participants during registration.

Address: [Het Pand, Onderbergen 1](#)

### Monday 5 August

#### 18.00 hrs - Welcome Reception at the Town Hall

Ghent's town hall is a building with many faces. The flamboyant Gothic style of the façade in Hoogpoort contrasts sharply with the rather sober Renaissance style of the Botermarkt side.

The Welcome Reception will take place in the magnificent Pacification Hall with its white and black paved labyrinth, a symbol of the quest for justice and happiness.

The Welcome Reception is offered to all conference participants and exhibitors wearing the official conference badge.

We propose to assemble at the registration desk at the end of the sessions and to walk to the Town Hall in group.

Address: [Town Hall, Botermarkt 1](#)



## Wednesday 7 August

### 13.30 - 19.00 hrs - Guided Visit of Bruges

We propose to meet in the lobby of Het Pand at 13.30 hrs. The buses will leave at 13.45 hrs sharp.

On arrival in Bruges the guides will be waiting for us and will take us on a guided walk through Bruges' rich history. There will be time for a coffee or tea during this guided walk.

The walk will end at 18.15 hrs.

**This visit is included in the registration fee but pre-registration was mandatory.**

## Thursday 8 August

### 19.30 hrs - Conference Dinner

The Conference Dinner will take place at the 'Handelsbeurs', an impressive building with a commanding façade. The Handelsbeurs is located on the Kouter square, well-known for its 19th century stately buildings and for its flower market on Sundays.

**The Conference Dinner is included in the registration fee but pre-registration was mandatory.**

Address: Handelsbeurs, Kouter 29



## General Information

### Dates

4 – 9 August 2019

### Venue

**Het Pand**  
Onderbergen 1  
9000 Ghent

### Language

The Conference language is English.

### Badges and Registration

It is mandatory that all Conference participants and exhibitors wear the official badges at any time. The badge gives participants access to the scientific sessions, the coffee breaks and the social functions.

### Coffee

Coffee will be served in the Kapittel Room on the ground floor (see floor plan on page 2).

### Posters, Poster Tours & Happy Hours

The posters are on display in the Cloister Hallway on the first floor (see floor plan on page 2). The beer and wine happy hours - respectively on Tuesday and on Thursday - will take place in the Cloister Hallway.

### Non-Smoking Policy

It is prohibited to smoke in 'Het Pand'.

### Liability

Neither the organisers nor Medicongress accept liability for damages and/or losses of any kind which may be incurred by Conference participants or exhibitors during the Conference. Participants and exhibitors are advised to take out insurance against loss, accidents or damage which could be incurred during the Conference.

### Organisation and Administration

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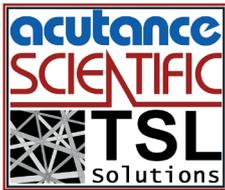




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