

The 4th International Symposium on Frontiers in Applied Mechanics



The 4th International Symposium on the Frontiers in Applied Mechanics (ISFAM2018), which follows the format of Gordon Research Conferences, will be held in Norwegian University of Science and Technology (NTNU), Trondheim, Norway, August 08-11, 2018. It aims to create a forum for all who are engaged in academic and industrial work related to the field of theoretical and applied mechanics. Its primary objective is to facilitate the discussion and exchange of cutting-edge ideas in connection with current research and development activities in the field of Applied Mechanics.

<u>ISFAM2014</u>, Singapore, Dec.04-07, 2014

<u>ISFAM2015</u>, Xi'an, China, Nov. 07-10, 2015

ISFAM2016, Melbourne, Australia, Dec. 01-04, 2016

### **Announcements**

The symposium banquet will be held at <u>Restaurant Kommandanten</u> at 18:00 today. Due to possibly heavy rain in late afternoon, there will be bus transport arranged from Hotel Scandic Nidelven (17:30), Hotel Comfort Park (17:35), Hotel Scandic Lerkendal (17:40) (Aug.10).

The networking dinner will be held at <u>Kvilhaugen Gård</u>. There will be bus arranged from the symposium venue to the restaurant at 17:30 today. After dinner, the bus will carry us to Hotels Scandic Nidelven, Comfort Park, Scandic Lerkendal and Quality Augustin (Aug.09).

ISFAM2018 registration will start at 17 o'clock on Wednesday, Aug. 08, in the area out of auditorium R8 and R9, Realfagbygget, Gløshaugen campus, NTNU (Aug.06).

Due to unexpected delay of renovation work in Realfag canteen, ISFAM welcome reception and luncheon will be held in <u>Hangaren canteen</u> (Aug.05).

ISFAM2018 program and proceeding have been updated (Aug. 06).

# Symposium organizers and sponsors

- <u>Norwegian University of Science and Technology</u> (NTNU), Norway
- NTNU Nanomechanical Lab, Norway
- State Key Laboratory for Strength and Vibration of Mechanical Structures, XJTU, China
- International Association of Applied Mechanics
- The Association for Computational Mechanics, Singapore

### Contact

General Secretary:

Ms. Rong HUANG, Xi'an Jiaotong University, China

ronghuang@xjtu.edu.cn

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Courses
Career development
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Application process

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Vacancies
Pictures from NTNU
Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

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NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

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Accessibility statement (in Norwegian)
Privacy policy
Editorial responsibility
Sign In

#### MENU >

# Organizing committee

#### Chairmen:

- Zishun LIU (Xi'an Jiaotong University, China)
- <u>Jianying HE</u> (Norwegian University of Science and Technology, Norway)
- Kun ZHOU (Nanyang Technological University, Singapore)

### Secretary:

• Ms. Rong HUANG (Xi'an Jiaotong University, China)

#### Members:

- Fangsen CUI (IHPC, Singapore)
- Wenhui DUAN (Monash University, Australia)
- Hua Li (Nanyang Technological University, Singapore)
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- C.W. LIM (City University of Hong Kong)
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- Guowei MA (University of Western Australia, Australia)
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- Dorival PEDROSO (The University of Queensland, Australia)
- Qing-Xiang PEI (IHPC, Singapore)
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- Chongmin SHE (Nanjing University of Aeronautics and Astronautics, China)
- Shengping SHEN (Xi'an Jiaotong University, China)
- Bjørn Hegle Skallerud (Norwegian University of Science and Technology, Norway)
- Vincent B. C. TAN (National University of Singapore)
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- Luwen ZHANG (Shanghai Jiaotong University, China)

### Studies

Career development Continuing education Application process

### Contact

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Employees
For alumni
Press contacts
Researcher support

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Vacancies
Pictures from NTNU
Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

### **About NTNU**

NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

#### Services

For employees For students Blackboard Intranet

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Privacy policy
Editorial responsibility
Sign In

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# **International Scientific Committee**

### Chairmen:

- Daining FANG (Beijing Institute of Technology, China)
- <u>Tiejun WANG</u> (Xi'an Jiaotong University, China)
- <u>Zhiliang ZHANG</u> (Norwegian University of Science and Technology, Norway)

#### Members:

- Yumin CHENG (Shanghai University, China)
- Qian DING (Tianjin University, China)
- Xi-Qiao FENG (Tsinghua University, China)
- Yuantong GU (Queensland University of Technology, Australia)
- Jianying HE (Norwegian University of Science and Technology, Norway)
- Nick Hill (University of Glasgow, UK)
- Heow Pueh LEE (National University of Singapore, Singapore)
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- Priyan MENDIS (The University of Melbourne, Australia)
- Nimal Rajapakse (Simon Fraser University, Canada)
- Shengping SHEN (Xi'an Jiaotong University, China)
- Bjørn Hegle Skallerud (Norwegian University of Science and Technology, Norway)
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- Lin YE (University of Sydney, Australia)
- Lihai ZHANG (The University of Melbourne, Australia)

### Studies

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

Contact NTNU
Employees
For alumni
Press contacts
Researcher support

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Experts
Vacancies
Pictures from NTNU
Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

### **About NTNU**

NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

For employees For students Blackboard Intranet

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Accessibility statement (in Norwegian)
Privacy policy
Editorial responsibility
Sign In

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# Registration

# **ISFAM2018 Registration**

# Registration fees (including VAT): NOK 6 500.00

Please note that participation in the symposium is by invitation only. Should you be interested in participating, please contact the symposium secretary.

# **Important Dates**

First Announcement 15 March 2018

Registration Opens 15 March 2018

Registration Closes 30 April 2018

ISFAM2018 Trondheim 08-11 August 2018

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Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

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NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

For employees For students Blackboard Intranet

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Privacy policy
Editorial responsibility
Sign In

Editorial responsibility | Use of cookies | Privacy policy

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All attendees of this symposium are invited to submit their work in the <u>International Journal of Applied</u>

<u>Mechanics (IJAM)</u> or <u>International Journal of Computational Materials Science and Engineering (IJCMSE)</u>. Papers submitted to journals will go through the rigorous peer-review process with the same standard as for regular submissions.

#### **Studies**

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

#### Contact

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Employees
For alumni
Press contacts
Researcher support

#### **Discover NTNU**

Experts
Vacancies
Pictures from NTNU
Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

### **About NTNU**

NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

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Accessibility statement (in Norwegian)
Privacy policy
Editorial responsibility
Sign In

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<u>Program</u> (updated August 06, 2018)<u>Full proceeding</u> (updated August 06, 2018)

ISFAM2018 Programme Overview				
	Wed 08/08	Thurs 09/08	Fri 10/08	Satur 11/08
08:00-8:30		Registration		
08:30-9:10		Opening & Welcoming Remarks		
9:10-9:30		MC Talk&Group photo		
9:30-10:00		Tea Break		Special Topic Discussion & Campus Tour
10:00-10:20		Danellal assais no 1	Tea Break	
10:20-12:00		Parallel sessions 1	Parallel sessions 5	
12:00-13:00		Lunch	Lunch	Lunch
13:00-15:00		Parallel sessions 2	Parallel sessions 6	
15:00-15:20		Tea Break	Tea Break	International committee meeting&Closing
15:20-17:10		Parallel sessions 3	E-poster sessions	
17:10-18:00	Pagistration 9			
18:00-19:00	· · · · · · · · · · · · · · · · · · ·	Dinnar/Kuilhaugan Cård	Panguat/Pagtaurant	
19:00-20:00		Dinner(Kvilhaugen Gård, Blussuvollsbakken 20, 7052	Banquet(Restaurant Kommandanten, Kristiansten	
20:00-21:00		Trondheim)	Fesning, 7016 Trondheim)	

#### **Studies**

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

### Contact

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Press contacts
Researcher support

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Vacancies
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Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

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NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

#### Services

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Sign In

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# **ISFAM2018**

The 4th International Symposium on Frontiers in Applied Mechanics

# Program

August 08-11, 2018 Trondheim, Norway



# **Scientific Program Agenda**

### Day 1

Wednesday, August 8th, 2018		
5:00 pm-8:00 pm	Registration – mingling area out of R8 and R9, Realfagbygget,NTNU	
	Welcome buffet Hangaren canteen, sentralbygg, NTNU	

# Day 2

5 d y 2				
Thursday, August 9th, 2018				
8:00 am5:00 pm		All day Registration Realfagbygget,NTNU		
8:30 am9:30 am		Opening Ceremony/Welcoming Remarks		
		Chair: Zishun Liu —Room R8		
8:30 am	8:40 am	Introduction Jianying He, NTNU		
8:40 am	8:50 am	Welcoming Remarks—Olav Bolland, Dean, Faculty of Engineering, NTNU		
8:50 am	9:00 am	Opening talkDaining Fang, Beijing Institute of Technology, China		
9:00 am	9:10 am	Opening talkTiejun Wang, Xi'an Jiaotong University,China		
9:10 am	9:30 am	MC Talk &Group photo		
9:30 am	10:00 am	Tea Break Realfagbygget,NTNU		
10:00 ==	n 11:40 am	Parallel Sessions 1		
10:00 ar	n-11:40 am	Room R8 &R9		
S5 Nano	mechanics			
Chairs: X	(iaoming CHEN	I; Jianying HE Location: Room R8		
	Nanomechar	nical Characterization of The Mechanical Strength of Carbon		
S5-01	Nanotube - Metal Interfaces			
		Xiaoming CHEN, Xi'an Jiaotong University, China		
	Design and Characterization of Super-Low Ice Adhesion Surfaces			
S5-02	<u>J</u> ianying HE, Zhiliang ZHANG, Norwegian University of Science and Technology,			
	Norway			
S5-03	MD Simulation of Fracture Characteristics of Graphene			
33-03	Nimal RAJAPAKSE, Simon Fraser University, Canada			
S5-04	Role of Dislocation on the Mechanical Properties of Monolayer MoS2			
33-04	Jianyang WU, Xiamen University, China			
	Looking into Nanoscale Ice Adhesion Interface Mechanics By Molecular Dynamics			
S5-05	Simulations			
		Norwegian University of Science and Technology, Norway		
S8 New topics related structures				
Chairs:	Chairs: Liming CHEN; Qun LI Location: Room R9			

	1			
	A Novel Hierarchical Thermoplastic Composite Honeycomb Cylindrical Structure:			
S8-01	Fabrication and Axial Compressive Properties			
	Liming CHEN, Chongqing University, China			
S8-02		ions of Material Configurational Mechanics		
		Jiaotong University, China		
	•	Temperature-Dependent Fracture Strength Model for the Particulate-Reinforced		
S8-03	_	mperature Ceramics		
	Weiguo LI, Chongqing University, China			
S8-04		roperties of Origami-Inspired Structures		
		Swinburne University of Technology, Australia		
12:00 ar	m- 1:00 pm	Lunch- Hangaren, sentralbygg,NTNU		
1:00 pm	-3:00 pm	Parallel Sessions 2		
	·	Room R8 &R9		
	mechanics			
Chairs:	Luwen ZHANG	• •		
65.06	_	Hydrogen Enhanced Localized Plasticity: From Discrete Dislocation		
S5-06	Scale to Cont			
		University of Oxford, UK		
	_	ly on Nanocomposites Reinforced by Low-Dimensional Carbon		
S5-07		ultiscale Modeling And Experiments		
	Luwen ZHANG, Shanghai Jiao Tong University, China			
S4-01	Recent Developmet in Mechanics of Soft Materials and Machines			
	Zishun LIU, Xi'an Jiaotong University, China			
64.00	-	ic Hyperelastic Constitutive Model for Thermoplastic Prepregs		
S4-02	Including Fiber-Matrix Shear Interaction			
		i, Shanghai Jiao Tong University, China		
S4-03	Constitutive Model of Soft Elastomers			
60.11	_	Shaoxing QU, Zhejiang University, China		
	S8 New topics related structures& S6 Fluid Mechanics			
Chairs:		G; Marie-Jean Thoraval Location: Room R9		
S8-05		Interface in 2D Materials		
		6, National Center for Nanoscience and Technology, China		
	Development and Optimization of Selective Laser Sintered-Polymeric Materials			
S8-06	and Structures			
		lanyang Technological University, Singapore		
S8-07		ls with Tailorable Thermal Expansion		
		6, Beijing Institute of Technology, China		
S6-01		w Dynamics during Raindrop Impact Process		
		I, Beijing Institute of Technology, China		
S6-02	_	of the dynamics of fluid and flexible plate interaction		
	xiyun LU, Un	iversity of Science and Technology of China, China		

66.00	Vertical Jets i	n Drop Impact	
S6-03	Marie-Jean Thoraval, Xi'an Jiaotong University, China		
3:00 pm	-3:20 pm	Refreshment & Tea Break Realfagbygget,NTNU	
3:20 pm-5:10 pm		Parallel Sessions 3	
		Room R8	
S4 The n	nechanics of so	oft materials& S8 New topics related structures	
Chair: A	rne Ilseng; Liq	un TANG Location: Room R8	
S4-04	Characterizat	ion of Dynamic Mechanical Properties of Hydrogel in Solution	
34-04	Liqun TANG, South China University of Technology, China		
S4-05	Dynamic Behaviors of Pomelo Peel Inspired Hierarchical Honeycomb		
34-03	Jun XU, Beihang University, China		
\$4.06	Effects of Diffusion Rate for the Onset of Swelling Induced Buckling in Hydrogels		
S4-06	Arne Ilseng, Norwegian University of Science and Technology, Norway		
	Design of Functionally Graded Thermal Barrier Coating System for Advanced Gas		
S8-08	Turbine		
	Tiejun WANG, Xi'an Jiaotong University, China		
6:00 nm	-0:00 nm	Conference Banquet Kvilhaugen Gård	
6:00 pm-9:00 pm		Blussuvollsbakken 20, 7052 Trondheim	

# Day 3

, -				
Friday, Au	ıg,10th, 20	18		
8:30 am-10:00 am		Parallel Sessions		
S2 The mechanics of Bio-cell				
Chairs: Xinghua SHI; Xiaoyu LUO Location: Room R8			Location: Room R8	
	A coupled	agent-based and	soft tissue model of left ventricle post-myocardial	
S2-01	infarction			
	Xiaoyu LUO, University of Glasgow, UK			
S2-02	Dynamics mechanism for astrocyte-induced epilepsy oscillation in neurons			
32-02	Ying WU, Xi'an Jiaotong University, China			
	Rapid Transport of Deformation-Tuned Nanoparticles across Biological			
S2-03	Hydrogels and Cellular Barriers			
	Xinghua SHI, National Center for Nanoscience and Technology, China			
S2-04	Discrete-to-continuum modelling of a line of proliferating hyperelastic cells			
32-04	Nicholas A Hill, University of Glasgow, UK			
S3 Vibratio	n& Acoustic	S		
Chairs: Heow Pueh LEE; Qian DING Location: Room R9				
	Sound radi	ation of the bean	n with a wedge-shaped edge embedded acoustic	
S3-01	black hole feature			
	Qian DING	. Tianjin Universi	ity, China	

	Mapping prediction method and application on random vibration environment			
S3-02	of space vehicle structure			
	Longlei DONG, Xi'an Jiaotong University, China			
S3-03	Experimental and numerical study of nonlinear ultrasonic lamb waves in thin			
	plates with quadratic nonlinearity			
	Yaolu LIU, Chongqing University, China			
	Membrane-type acoustic metamaterials: towards large-scale noise control			
S3-04	applications			
	Heow Pueh LEE, National University of Singapore, Singapore			
10:00 am-	:00 am- 10:20 am Tea BreakRealfagbygget,NTNU			
10.20 am	Parallel Sessions 5			
10:20 am-	Room R8 & R9			
S2 The me	hanics of Bio-cell &S1 The mechanics of composite materials& structures			
Chairs: Li	ai ZHANG ; Xiaofan GOU Location: Room R8			
62.05	Modelling the consolidation and lubrication of articular cartilage			
S2-05	Lihai ZHANG, The University of Melbourne, Australia			
60.06	Modeling of Soft Tissue in the Soft Palate Related to Obstructive Sleep Apne	a		
S2-06	Bjørn Skallerud, Norwegian University of Science and Technology, Norway			
21.21	Deformation Analysis of 2.5D Woven Preform Composites			
S1-01	Ying DAI, Tongji University, China			
	Void structure of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>x</sub> conductors and its effect on the critical curre	ent		
S1-02	density of multifilamentary composite wires			
	Xiaofan GOU, Hohai University, Nanjing, China			
	An in situ experimental method for damage behavior of 3D woven composites			
S1-03	under out-of-plane tension load			
	Licheng GUO, Harbin Institute of Technology, China			
S3 Vibratio	S3 Vibration& Acoustics &S7 Computational Method			
	n LIU ; Yongmao PEI Location: Room R9			
	Snap-Through Boundaries of Metal Plate Under Thermo-Acoustic Load Base	d		
S3-05	on Probability Theory			
	Zhen LIU, Xi'an Jiaotong University, China			
	High temperature in situ microwave near-field imaging			
S3-06	Yongmao PEI, Peking University, China			
	The Coupling of Dimension Splitting and Improved Complex Variable Element-			
S7-01	Free Galerkin Methods			
	Yumin CHENG, Shanghai University, China			
	A Modified Hertz Model for Finite Spherical Indentation Inspired by Numeric	cal		
S7-02	Simulation			
3, 52	Zaoyang GUO, Harbin Institute of Technology/Beihang University, China			
	On Robust Topology Optimization of Multi-Material Structures with Uncerta	in		
S7-03	Interface			
	meriace			

	7h an KANC Daling Hair again of tack a day. Chian			
12.00	Zhan KANG, Dalian University of technology, China			
12:00 am- 1:00 pm		Lunch- Hangaren, sentralbygg,NTNU		
1:00 pm-3:00 pm		Parallel Sessions 6		
1.00 pm 3	.оо рии	Room R8		
S1 The me	chanics of co	omposite materials& structures &S7 Computational Method		
Chairs: Liju	ian LI; Bo W	ANG Location: Room R8		
	Analytical S	Solution for the Buckling and Post-buckling Behavior of Stiffened		
S1-04	Arbitrary L	aminated Composite Panels		
	Pengfei HE	, Tongji University, China		
	Study of load bearing capacity of FRP-recycled aggregate concrete-steel tubular			
S1-05	columns with shear connectors			
	Lijuan LI, (	Guangdong University of Technology, China		
	A coupled elastic-plastic damage model for the mechanical behavior of three-			
S1-06	dimensional (3D) braided composites			
	Jun LIANG, Yazheng YANG, Beijing Institute of Technology, China			
	Efficient prediction method for the lower-bound buckling load of stiffened			
S1-07	shells			
	Bo WANG, Dalian University of Technology, China			
	A nonlinear coupling finite element model of layered magnetoelectric			
S1-08	composite			
	Yuanwen GAO, Lanzhou University, China			
07.04	Wavelet Method for Nonlinear Dynamics Problems of Complex Structures			
S7-04	Jizeng WANG, Lanzhou University, China			
3:00 pm-3:20 pm Refreshment & Tea Break Realfagbygget,NTNU		Refreshment & Tea Break Realfagbygget,NTNU		
3:20 pm-5	:10 pm	E-poster session		
6.00	00	Conference Banquet Restaurant Kommandanten,		
6:00 pm-9	:uu pm	Kristiansten Fesning, 7016 Trondheim		
G,				

# Day 4

Saturday, Aug,11 th, 2018			
8:30 am10:00 am	Special Topic Discussion & Campus Tour-		
	NTNU Campus		
12:30 pm-2:30 pm	Networking LunchNTNU Campus		
3:00 pm4:00 pm	Closing Ceremony & Committee Member Meeting		
	Room R8, Realfagbygget,NTNU		

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### The ISFAM Welcome Reception

Wednesday, 8 August, 2018

Time: 18:00-20:00

<u>Hangaren canteen</u>, in the central building next to Realfagbygget, NTNU

## The ISFAM Networking Dinner

Thursday, 9 August, 2018

Time: 18:00-21:00

Kvilhaugen Gård, Blussuvollsbakken 20, 7052 Trondheim

### The ISFAM Banquet

Friday, 10 August, 2018

Time: 18:00-21:00

Restaurant Kommandanten, Kristiansten Festning, 7016 Trondheim

Delegates who have paid the registration will be issued the social event tickets. There will be a limited amount of tickets available for purchase during the conference at check-in.

### **Studies**

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

### Contact

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NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

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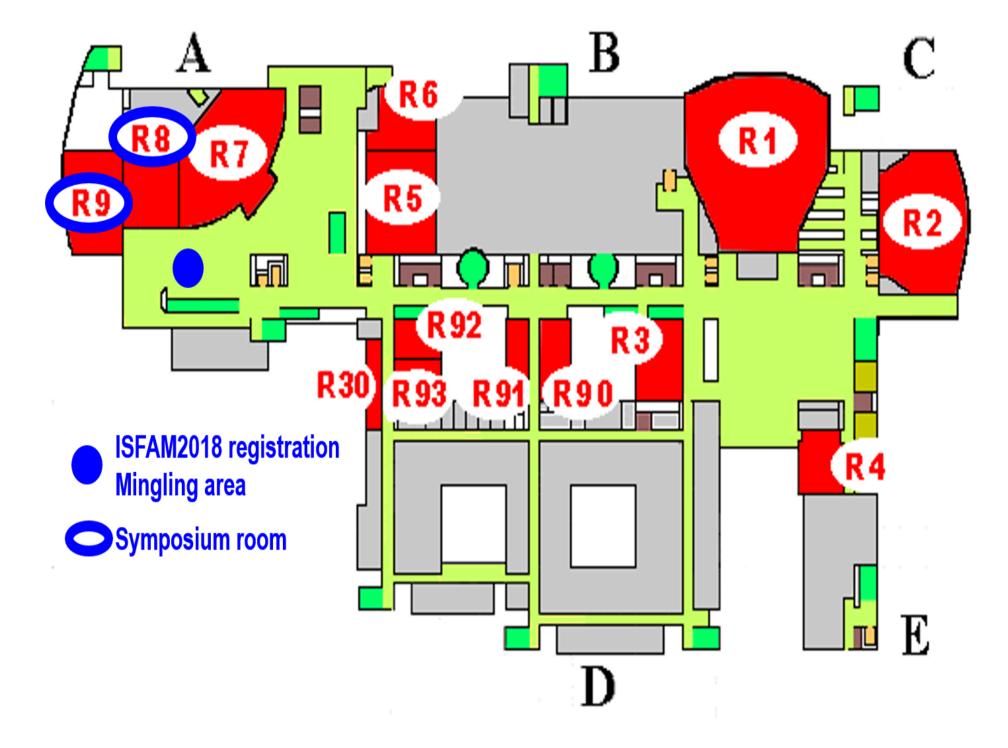


Natural Sciences Building, NTNU

The venue for the symposium is the Natural Sciences Building (Realfagbygget) at the university campus "Gløshaugen", NTNU, in Trondheim (Street address: Høgskoleringen 5), map direction.

# Floor plan

Auditorium R8 and R9, Realfagbygget (Natural Science building) floor U1. Direction can be found <a href="here">here</a>



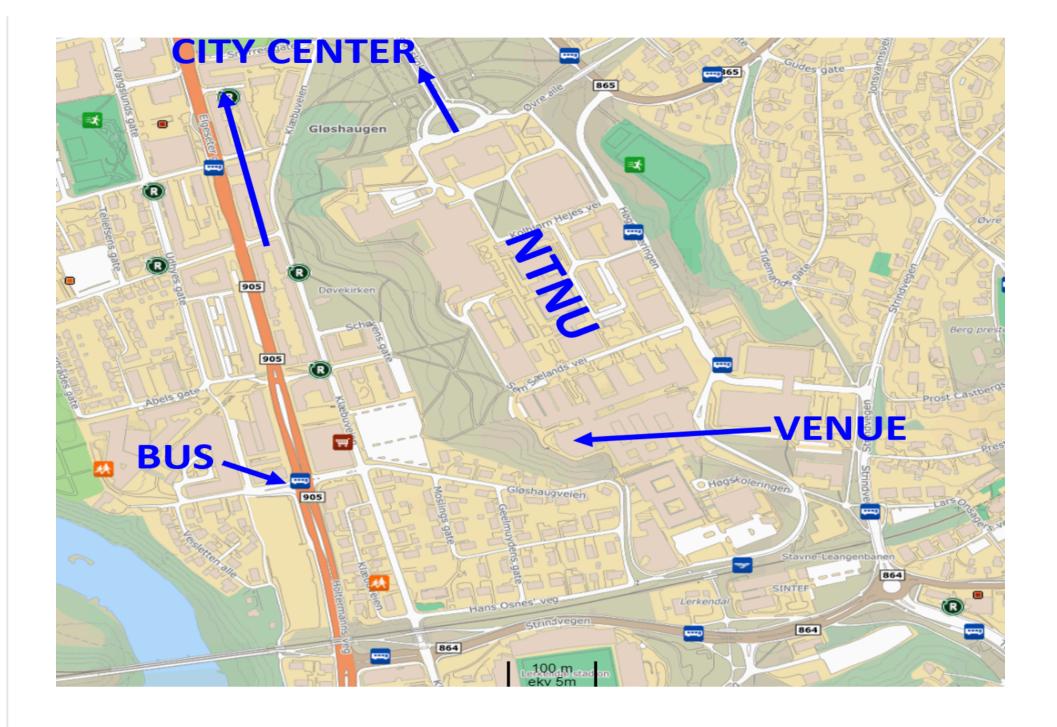
# Get to the venue from city center

WALK: The campus is approximately 15-20 minutes walk from the city center.

### Due to roadwork during summer, public buses will not go through the campus before Aug 13.

BUS: Buses on route number 5 (Trondheim sentrum – Dragvoll/Lohove) leaves from the center of Trondheim, intersection Kongens gate/Prinsens gate (K2) every 15 minutes, and <u>takes 10 minutes to busstop **Professor Brochs gate**. It takes 5 minutes to walk up to Natural Science Building. The fare is NOK 60 with cash payment only on the bus, or NOK 37 with mobile app **AtB Mobillett**. <u>See Bus Timetable</u></u>

TAXI: Taxi from the city center to Realfagbygget will take around 5 minutes and will cost approximately NOK 120. Credit card is accepted. To book a taxi, from an international phone: +47 930 07373, local calls: 07373, or mobile app **trondertaxi**.



### **Studies**

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

### Contact

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For alumni
Press contacts
Researcher support

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Experts
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Innovation resources
NTNU in Gjøvik
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# **About NTNU**

NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

For employees For students Blackboard Intranet

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Privacy policy
Editorial responsibility
Sign In

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We have hold hotel rooms in the two hotels <u>until the 15th of June, 2018</u>. As Trondheim will be very crowded during the symposium period, we encourage all participants to book your hotel accommodation as soon as possible via the following links with booking codes for agreed price.

# **Comfort Park Hotel**





The Comfort Hotel Park is a modern hotel with a great location in the centre of Trondheim. It is a cash-free hotel. The rates are per room per night, and include breakfast, coffee and tea available all day, and free use of sauna. The ISFAM2018 rates:

Single room – 994 NOK

Double room single use – 1094 NOK

Double room double use - 1199 NOK

Juniorsuite – 1499 NOK

Booking per e-mail (co.park@choice.no) or per phone (+47 73 83 39 00) with booking code: GB000084.

# **Scandic Nidelven Hotel**





Built on the Nidelva River, this hotel is 5 minutes' walk from Trondheim Central Station and Solsiden Shopping Centre. The hotel has won the prize for having "The Best Hotel Breakfast in Norway" for the 11th time. Breakfast and tax are included in the rate. The ISFAM2018 rates:

Single room – 1230 NOK

Double room – 1230 NOK

Booking link <u>Scandic Nidelven Hotel</u> with booking code: D000003269.

### **Studies**

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

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NTNU in Trondheim
NTNU in Ålesund
Maps

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NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

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Trondheim is the third largest town in Norway with 193 000 inhabitants. Founded by the Viking King Olav Tryggvason in 997, Trondheim holds a special place in Norwegian history and culture. Today this heritage, combined with our high academic traditions, makes Trondheim an ideal city for work, investment, research, industry and commerce.

More information about Trondheim can be found at:

trondheim.com

visitnorway.com



Situated in central Norway, Trondheim is easily accessible whatever your choice of transportation. By plane you will land at Trondheim's modern airport at Værnes (32 km from the city). If you come by train you can relax and look at the unique Norwegian countryside.

If you are coming from the south of Norway you can drive through the majestic Dovre Mountains. Another special way to visit Trondheim is by the coastal express which will give you a chance to experience Norway's special and beautiful coast.

Further information at:

www.avinor.no/en/trondheim

www.visitnorway.com/places-to-go/trondelag/trondheim/

**Getting to and from Trondheim Airport, Værnes** Bus and train stops are marked in the <u>Trondheim map</u>

By bus

Two airport bus companies are present at the airport. They both go to the city center. The ticket price is NOK 130 (return: NOK 220). Credit cards are accepted.



Airport-bus Nettbus (blue/white) runs every 10 minutes.

Værnes Expressen (grey) runs every 20 minutes from the airport.



#### By train

Værnes station is in the immediate vicinity of the terminal. Local trains traffic the station approx. once hourly. The train arrives in Trondheim at "Trondheim Sentralstasjon". Travel time to Trondheim is approx. 45 minutes. Price per adult: NOK 90.

For an up-to-date timetable, see <u>NSB</u> or contact NSB customer service on phone no. +47 815 00 888.

### By taxi

Trønder Taxi:

Airport Taxi can be pre-booked for a fixed per-person rate (NOK 429,- from airport to Trondheim city) in a car pool at phone: +47 930 07373 or <a href="www.trondertaxi.no">www.trondertaxi.no</a>. Have your flight number at hand when booking.

The taxi fare from the airport to the city centre is approximately NOK 850. Most hotels are located in the city center.

#### **Studies**

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

### Contact

Contact NTNU
Employees
For alumni
Press contacts
Researcher support

#### **Discover NTNU**

Experts
Vacancies
Pictures from NTNU
Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

### **About NTNU**

NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

For employees

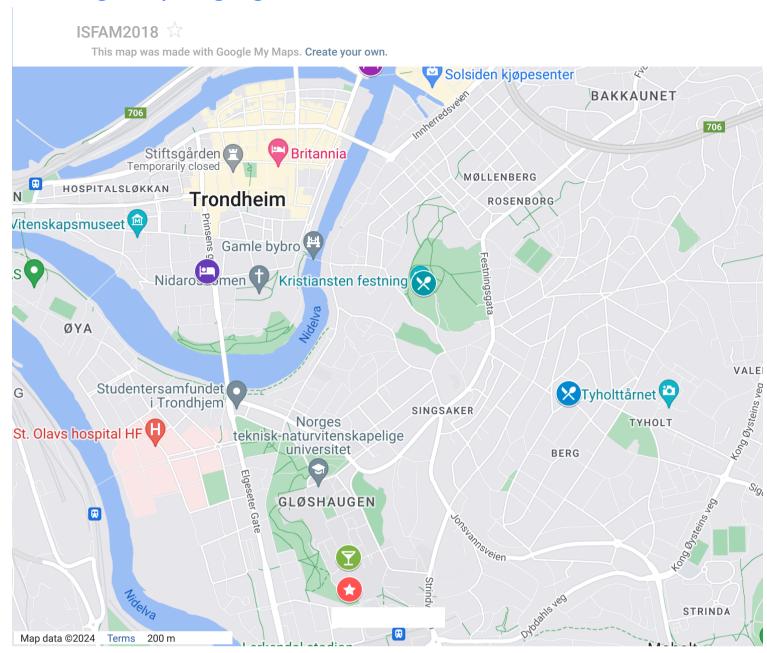
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# **General Secretary:**

Ms. Rong HUANG
Xi'an Jiaotong University, China
ronghuang@xjtu.edu.cn

### **Chairmen:**

Prof. Zishun LIU

Xi'an Jiaotong University, China <a href="mailto:rishunliu@mail.xjtu.edu.cn">rishunliu@mail.xjtu.edu.cn</a>

# **Prof. Jianying HE**

Norwegian University of Science and Technology (NTNU), Norway <a href="mailto:jianying.he@ntnu.no">jianying.he@ntnu.no</a>

### Assoc. Prof. Kun ZHOU

Nanyang Technological University, Singapore <a href="mailto:kzhou@ntu.edu.sg">kzhou@ntu.edu.sg</a>

### **Studies**

Master's programmes in English
For exchange students
PhD opportunities
Courses
Career development
Continuing education
Application process

#### Contact

Contact NTNU
Employees
For alumni
Press contacts
Researcher support

### **Discover NTNU**

Experts
Vacancies
Pictures from NTNU
Innovation resources
NTNU in Gjøvik
NTNU in Trondheim
NTNU in Ålesund
Maps

### **About NTNU**

NTNU's strategy
Research excellence
Strategic research areas
Organizational chart
Libraries
About the university

### Services

For employees For students Blackboard Intranet

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