VSB TECHNICAL UNIVERSITY OF OSTRAVA

YOKOHAMA National University YNU

THE ELEVENTH INTERNATIONAL WORKSHOP

NEW METHODS OF DAMAGE AND FAILURE ANALYSIS OF STRUCTURAL PARTS 2026

https://www.fmt.vsb.cz/cpit/en/Conference_2026

Final Circular

Organized by

Yokohama National University, Faculty of Engineering, Institute of Advanced Sciences

VŠB-Technical University of Ostrava, Faculty of Materials Science and Technology

Under the auspices of

Embassy of the Czech Republic in Tokyo

Welcome Message

Dear Friends and Colleagues,

With great pleasure the Organizing Committee is sending the final circular of **The Eleventh International Workshop, New Methods of Damage and Failure Analysis of Structural Parts 2026**. The workshop is held at the Yokohama National University on **16th –19th November, 2026**.

The series of the workshop started in 2004 at VŠB-Technical University of Ostrava and ever since, the workshop has succeeded in discussing interdisciplinary approaches that integrate the knowledge of degradation processes in materials, reliability of engineering parts in service, and transfer of materials research results to industry. This workshop will continue in the tradition of earlier meetings, and the second time to be held in Yokohama after 7th workshop in 2016. We believe Yokohama provides an exciting and relaxing place for discussing the latest development, sharing experiences, and planning future collaborations and projects.

The final circular provides updated information on the program. The technical program of the workshop will feature the latest research and state-of-the-art developments in all areas related to damage and failure analyses of structural parts. With best enthusiasms and hospitality, we look forward to seeing you in Yokohama.

Sincerely,





Conference chairman

Professor Osamu Umezawa

Yokohama National University

Conference co-chairman

Professor Bohumír Strnadel

VŠB-Technical University of Ostrava

Committee

Organizing Committee

Prof. Osamu Umezawa	Yokohama National University (Conference chairman)
Prof. Ing. Bohumír Strnadel	VŠB-Technical University of Ostrava (Conference co-chairman)
Prof. Makoto Hasegawa	Yokohama National University (Conference secretary)
Prof. Ing. Ivo Dlouhý	Inst. of Physics of Mater., Czech Academy of Sciences
Prof. Ing. Kateřina Skotnicová	VŠB-Technical University of Ostrava
Ing. David Dvořák	VŠB-Technical University of Ostrava (Secretary)

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Prof. Dr. Ing. Petr Haušild	Czech Technical University in Prague
Prof. Qiang Yu	Yokohama National University
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Prof. Wataru Nakao	Yokohama National University
Prof. Tadahiro Shibutani	Yokohama National University
Prof. Norimitsu Koga	Kanazawa University

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Dr. Kunio Hasegawa	Japan Atomic Energy Agency
Prof. Hiroshi Fukutomi	Osaka University

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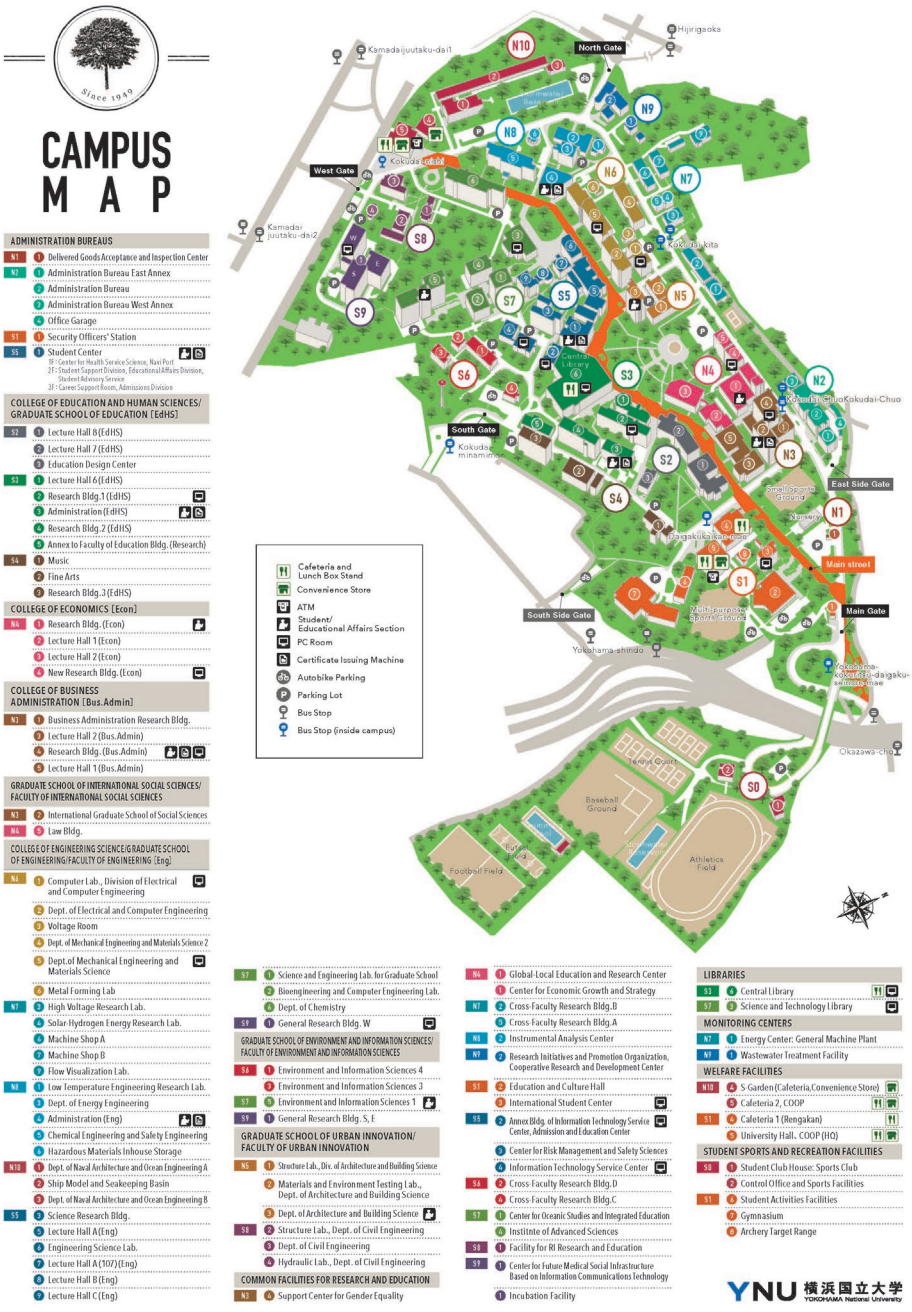
Workshop Information

All relevant information about the workshop is introduced on the following website:

https://www.fmt.vsb.cz/cpit/en/Conference_2026

Venue

Yokohama National University, Education and Culture Hall (Building number: S1-2)



ACCESS to YNU

https://www.ynu.ac.jp/english/about/access/access/

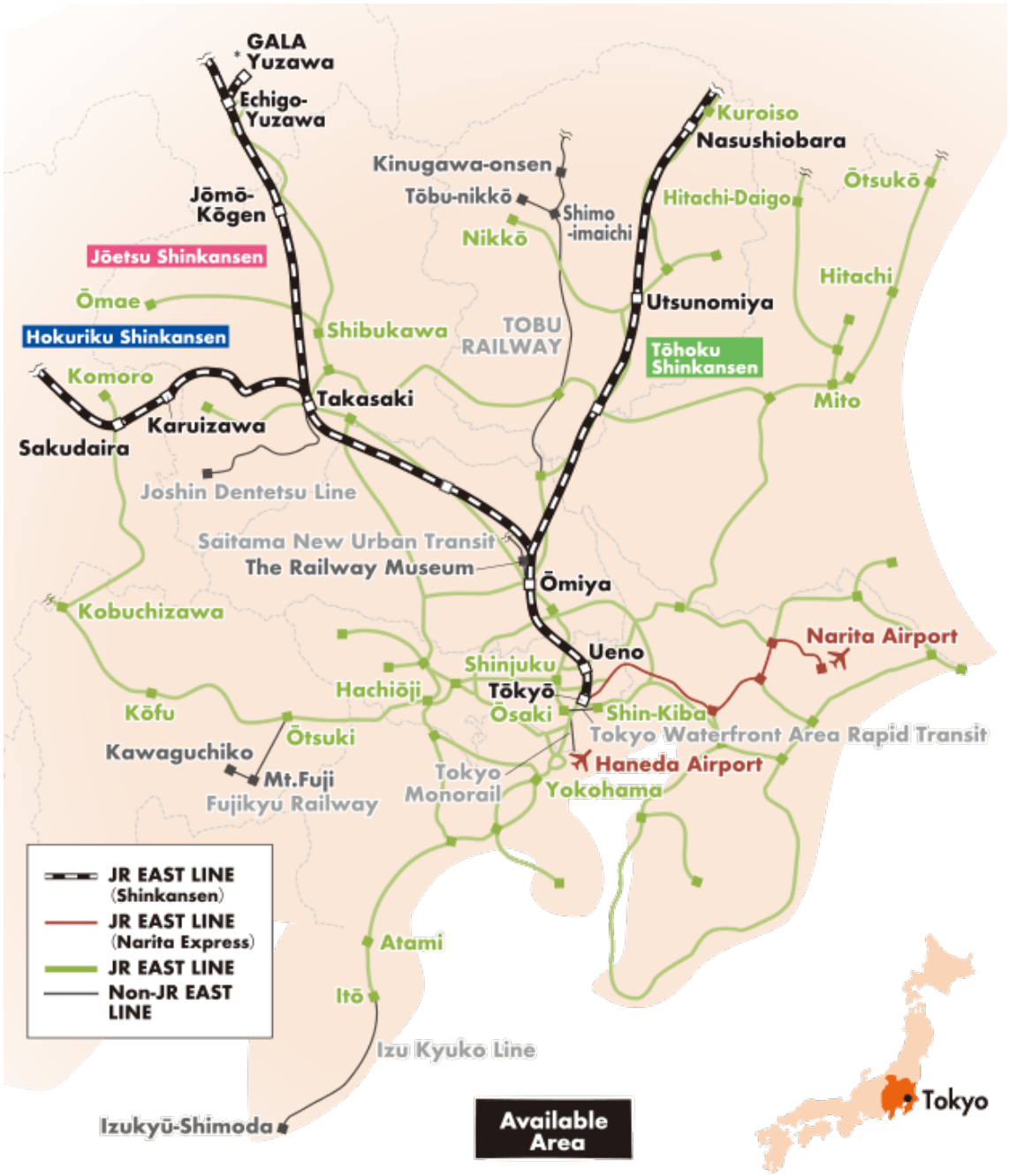
Transportation to Yokohama

- **The following are some of the most convenient routes available to reach Yokohama Station:**

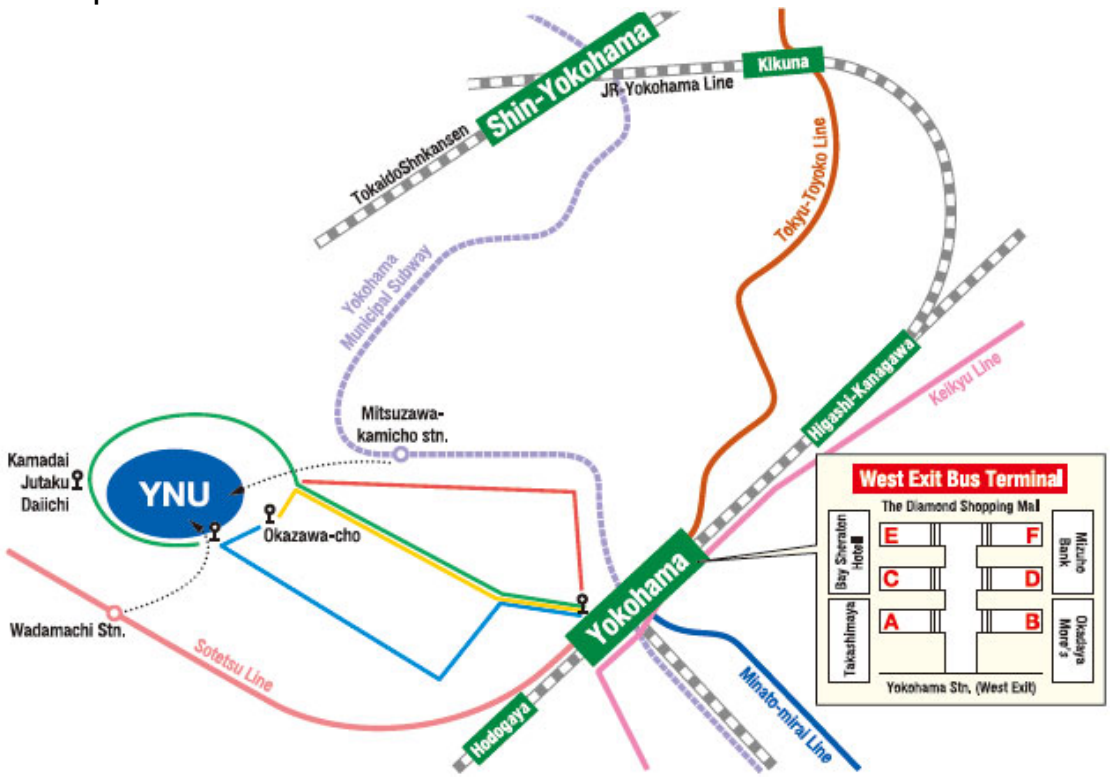
- From Tokyo Station to Yokohama Station－30 minutes by JR Tokaido Line or Yokosuka Line
  Real-time Route Search https://www.jreast.co.jp/en/multi/
  Suica /smart card https://www.jreast.co.jp/en/multi/suica/
- From Tokyo Narita Airport to Yokohama Station－90 minutes by JR Narita Express
  N'EX TOKYO Round Trip Ticket
  https://www.jreast.co.jp/en/multi/pass/nex.html
  Please note that fare with a "N'EX TOKYO Round Trip Ticket" is only 5,200 yen. The tickets can be purchased by online and from JR EASE Travel Service Centers at Narita Airport Terminals 1 and 2.
- From Tokyo Narita Airport to Yokohama City Air Terminal (YCAT)－120 minutes by Airport Limousine Bus
- From Tokyo Haneda Airport to Yokohama Station－20 minutes by Keihinkyuko Line
- From Tokyo Haneda Airport to Yokohama City Air Terminal (YCAT*)－30 minutes by Keikyu Bus

***YCAT is located in the Yokohama Sky Building by the East Exit of Yokohama Station.**

JR TOKYO Wide Pass https://www.jreast.co.jp/en/multi/pass/tokyowidepass.html



Transportation from Yokohama Station to Yokohama Natl. Univ.



- By Taxi (From the west exit of Yokohama Station)

- **It takes about 15 minutes from the west exit of Yokohama Station to Yokohama Natl. Univ.**

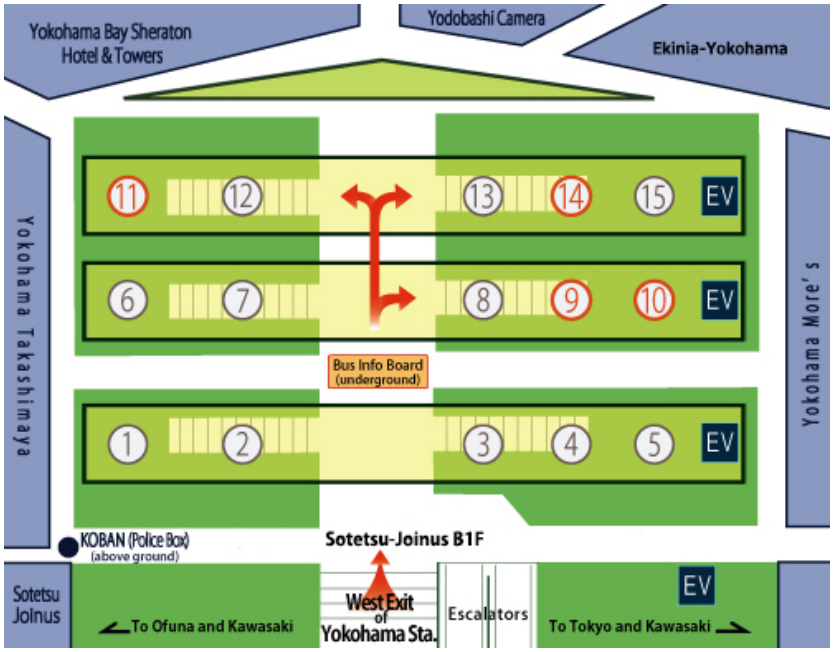
- By Train

- **Use Yokohama Municipal Subway from Yokohama Station and get off at Mitsuzawa-kamicho Station. It takes about 16 minutes on foot to reach the main gate of YNU.**

- By Bus

https://www.ynu.ac.jp/english/about/access/bus/

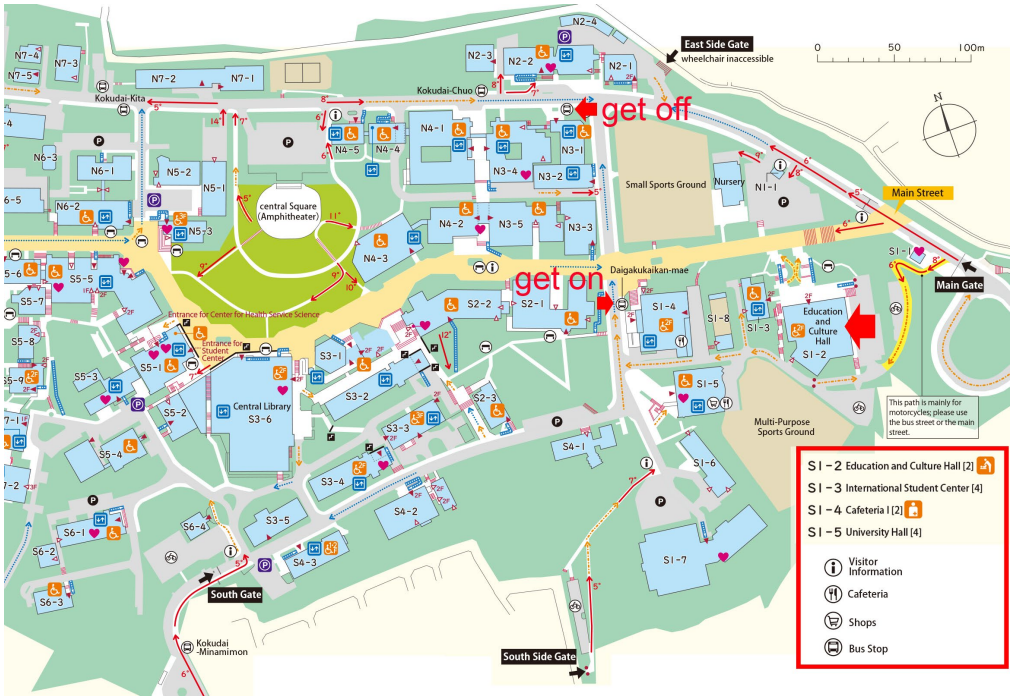
- **Use a bus at the bus terminal located at the west exit of Yokohama Station. It takes about 20 minutes from the west exit of Yokohama Station to YNU. The bus fare is 240 yen for Sotetsu Bus and 220 yen for Yokohama Municipal Bus. Payment can be made in cash or with a transportation IC card (such as Suica or PASMO). Credit cards are not accepted.**



Bus Stop to get off at Kokudai-chuo

Platform 10: Bus No. Hama 10 (Sotetsu Bus) for Yokohama Sta. West Exit

Platform 14: Bus No. #201・#329 (Yokohama Municipal Bus) for Yokohama Sta. West Exit



Bus Stop to get off at Okazawa-cho

Platform 10: Hama 5 (Sotetsu Bus) for Yokohama Sta. West Exit

Accommodation

Following economy hotels are recommended for your stay near Yokohama station. Please make a reservation for yourself and inform the conference secretary about your stay in Yokohama. If you need any help for the reservation, please do not hesitate to ask the conference secretary.

JR-East Hotel Mets Yokohama	https://www.hotelmets.jp/en/yokohama/
Sotetsu Fresa Inn Yokohama-Higashiguchi	https://sotetsu-hotels.com/fresa-inn/yokohama-higashiguchi/
Keikyu EX Inn Yokohama-Station East	https://www.keikyu-exinn.co.jp/en/hotel/yokohama/
Hotel Yokohama Camelot Japan	http://www.camelotjapan.com/stay/
Four Points Flex by Sheraton	https://www.marriott.com/ja/hotels/tyoyu-four-points-flex-yokohama-west/overview/
Richmond Hotels Yokohama Ekimae	https://richmondhotel.jp/yokohama-ekimae/

Program at a glance

	Nov. 16 (Mon)	Nov. 17 (Tue)	Nov. 18 (Wed)	Nov. 19 (Thu)
Morning	Registration Opening Ceremony Plenary lectures	Oral Lectures	Oral Lectures Discussion Close of lectures	Full Day Tour & Round Table in Yokosuka
Lunch	Lunch (at Cafeteria)	Lunch (at Cafeteria)	Lunch box	
Afternoon	Oral Lectures	Oral Lectures	Free Time	
Evening	Dinner (at Cafeteria)	Gala Dinner (at Aoki Sengyoten)		

Publication

Contributions will be collected and published with a peer review process in the Special Issue Vol.68, No. 8 by **Materials Transactions**, The Japan Institute of Metals and Materials (**https://jimm.jp/en/publications/menu_e.html**). Your paper submissions are welcome by **February 1st, 2027**.

PROGRAMME

Monday, November 16, 2026

9:00 – 9:30 **Registration**

9:30 – 10:10 **Opening Ceremony**

CONFERENCE OPENING
Osamu Umezawa, YNU, Conference Chairman

WELCOME REMARKS
Kamila Janovská, Dean, Faculty of Mater. Sci. & Tech. VŠB -TUO
Yasushi Takemura, Dean, Faculty of Engineering, YNU

JAPANESE CZECH COOPERATION
Martin Klučar, Ambassador Extraordinary and Plenipotentiary, Embassy of the Czech Republic in Tokyo
Bohumír Strnadel, VŠB-TUO, Conference Co-chairman

10:10 – 10:50 **Plenary Lecture**
Session Chair: O. Umezawa, YNU
ULTRA-HIGH TEMPERATURE CERAMICS AND THEIR JOINING
Ivo Dlouhý, Zdenek Chlup, Filip Siska, Hynek Hadraba, Naser Hosseini, Peter Tatarko, Miroslav Hnatko, Pavol Sajgalik

10:50 – 10:55 **SCHEDULE AND PROGRAM OVERVIEW**
Prof. MAKOTO HASEGAWA, YNU, CONFERENCE SECRETARY

10:55 – 11:15 **Coffee Break**

11:15 – 13:20 **Residual Stress, Structural Analysis and Material Degradation**
Session Chairs: Ivo Dlouhý, Inst. of Phy. of Mater.; Takayuki Yamashita, Osaka Univ.

Keynote Lecture
NANOINDENTATION CHARACTERIZATION OF 4H SILICON CARBIDE FOR ELECTRONIC DEVICES
Petr Haušild, Jaroslav Čech, Radim Čtvrtlík, Radim Špetík

DEVELOPMENT OF A PIPING SYSTEM ANALYSIS MODEL THAT ACCOUNTS FOR NONLINEAR BEHAVIOR OF SUPPORTS DURING EARTHQUAKES
Yuto Iwanaga, Tadahiro Shibutani

RESIDUAL STRESS ASSESSMENT IN A DISSIMILAR REACTOR PRESSURE VESSEL NOZZLE WELD USING THE HOLE-DRILLING METHOD
Vratislav Mareš, Lukáš Horsák, Pierre Dulieu

ANALYSIS OF WATERWALL CRACKS FORMED IN T24 HOMOGENEOUS WELDS DURING LONG-TERM SERVICE EXPOSURE
Vlastimil Vodárek, Renáta Palupčíková, Anastasia Volodarskaja, Petra Váňová, Michal Kresta, Christof Sommitsch, Zdeněk Kuboň

ENVIRONMENTAL IMPLICATIONS OF BRAKE WEAR PARTICLES: FROM CHARACTERIZATION TO ECOTOXICITY
Eva Olsovska, Miroslav Vaculík, Pavlína Peikertová, Richard Dvorský

DEVELOPMENT OF SELF-CLEANING BUILDING MATERIAL SURFACES THROUGH MODIFICATION WITH PHOTOCATALYTICALLY ACTIVE NANOPARTICLES
Matějka Vlastimil, Barraque Facundo, Foniok Kryštof

13:20 – 14:30 Lunch Cafeteria 1

14:30 – 16:10 Microstructure and Deformation Behavior of Steels
Session Chairs: Vlastimil Vodárek, VŠB-TUO; Masanobu Kubota, Kyushu Univ.

DEFORMATION BEHAVIOR IN THE STIR ZONE OF FRICTION STIR WELDED 0.15C-5MN MEDIUM-MN STEEL: AN IN SITU NEUTRON DIFFRACTION STUDY
Takayuki Yamashita, Stefanus Harjo, Wu Gong, Takuro Kawasaki, Kohsaku Ushioda, Hidetoshi Fujii

MICROTENSILE BEHAVIOUR OF A SINGLE-PACKET STRUCTURE IN TRIP BAINITIC STEEL
Kwangsik Kwak, Tsuyoshi Mayama, Yoji Mine, Kazuki Takashima

DISLOCATION CHARACTERISTICS AND DEFORMATION BEHAVIOR OF LOW-ALLOY STEEL WITH TEMPERED MARTENSITE AND BAINITE
Kenshin Miwa, Osamu Umezawa

TRANSFORMATION-INDUCED TYPE II INTERNAL STRESSES AND ANISOTROPIC CLEAVAGE FRACTURE IN LATH MARTENSITE
Yutaro Abe, Daisuke Fukui, Ryota Nagashima, Nobuo Nakada, Kazuki Shibanuma

DEFORMATION BEHAVIOR BEFORE AND AFTER STRAIN AGING IN MARTENSITIC STEEL
Shuji Adachi, Norimitsu Koga

16:10 – 16:30 Coffee Break

16:30 – 18:10 Creep and Mechanical Behavior
Session Chairs: Petr Haušild, Czech Tech. Univ. in Pragu; Nobuo Nakada, Inst. of Sci. Tokyo

CREEP TEST IN HIGH-TEMPERATURE HYDROGEN USING HOLLOW SPECIMEN
Masanobu Kubota, Kentrao Wada, Juan Shan

ASSESSMENT OF HYDROGEN EMBRITTLEMENT SUSCEPTIBILITY FOR API PIPELINE STEELS USING SMALL-PUNCH TESTS UNDER HIGH-PRESSURE HYDROGEN ENVIRONMENTS
Richard Pascua, Hyung-Seop Shin, SangHeon Lee

TEXTRURE EVOLUTION DURING HIGH TEMPERATURE UNIAXIAL COMPRESSIVE DEFORMATION IN A TWO-PHASE CU-ZN ALLOY
Taehyun Kim, Pramote Thirathipviwat, Makoto Hasegawa

CREEP BEHAVIOR OF ALSI7MG0.6 ALLOY PREPARED BY CONVENTIONAL METHODS AND LASER POWDER BED FUSION
Petr Dymáček, Bátková Denisa, Králová Natália, Jarý Milan, Halama Radim, Zogata Filip, Hajnyš Jiří

STUDY OF MICROSTRUCTURAL, MECHANICAL AND RHEOLOGICAL PROPERTIES OF 3D PRINTED REFRACTORY COMPOSITE CONTAINING MGO-CAO WASTE
Ovčačíková Hana, Topinková Michaela, Fiedor Jiří, Tokarský Jonáš, Rozbroj Jiří, Žurovec David, Hlosta Jakub, Boleslavský Adam, Zubek Pietor

18:10 – 18:20 **Announcement**

18:20 – 19:50 **Dinner** **Cafeteria 1**

Tuesday, November 17, 2026

9:00 – 10:40 **Fatigue and Structural Integrity**
Session Chairs: Equo Kobayashi, Inst. of Sci. Tokyo; Dinara Sobola, Inst. of Phy. of Mater.

EFFECTS OF NITROGEN STRENGTHENING ON HIGH-CYCLE FATIGUE PROPERTIES OF 15MN-15CR AUSTENITIC STEEL AT 77 K
Minoru Morita, Osamu Umezawa

A STUDY ON APPROXIMATE EVALUATION FOR THERMAL FATIGUE LIFE OF SOLDER JOINTS OF CHIP COMPONENTS
Yutaro Meshida, Rintaro Okuzono, Qiang Yu

FATIGUE STRENGTH ASSESMENT OF EPOXY RESIN BY PNEUMATIC DRIVE SMALL DISK BENDING FATIGUE TEST
Masanori Tsuruzono, Shin-ichi Komazaki, Masayuki Kamaya, Chiaki Hisaka, Akito Nitta

DEVELOPMENT OF FATIGUE LIMIT PREDICTION MODEL FOR NITRIED STEEL
Koji Takahashi

LASER SHOCK PEENING WITHOUT COATING: MICROSTRUCTURAL ENGINEERING FOR ENHANCED FATIGUE RESISTANCE IN STRUCTURAL ALLOYS
Praveenkumar Kesavan, Kateřina Skotnicová

10:40 – 11:00 **Coffee Break**

11:00 – 13:00 **Surface Engineering and Surface Characterization**

Session Chairs: Koji Takahashi, YNU; Yusuke Onuki, Tokyo Denki Univ.

GRAIN REFINEMENT OF FE4N LAYER IN NITRIDED STEEL BY GYRO-FINISHING
Norimitsu Koga, Ryosuke Kanebu, Yohei Hashimoto

SURFACE-HARDENED LAYERS FORMED IN AUSTENITIC STEEL BY LOW-TEMPERATURE CARBURIZING AND NITRIDING
Haruki Kobayashi, Osamu Umezawa

GD-OES ANALYSIS ON SURFACE HARDENED LAYER OF NITRIDED LOW-ALLOY STEELS
Hiroki Sato, Osamu Umezawa

MEASUREMENT OF ANISOTROPY OF YOUNG'S MODULUS IN Fe4N PHASE OF NITRIDED STEEL USING NANOINDENTATION METHOD
Taisei Nishiyama, Norimitsu Koga

ROLE OF THE SURFACE COMPOUND LAYER IN ROLLING AND SLIDING CONTACT FATIGUE OF NITRIDED STEEL
Takahide Umehara, Masato Yuya, Osamu Umezawa

EFFECT OF ELECTROLYTE COMPOSITION ON MICRO-ARC OXIDATION OF ADDITIVELY MANUFACTURED TI6AL4V
Josef Hlinka, Viktorie Novakova, Vlastimil Vodarek, Renata Palupcikova, Jiri Hajnys

13:00 – 14:00 **Lunch** **Cafeteria 1**

14:00 – 15:20 **Advanced Materials Processing and Mechanical Properties**

Session Chairs: Petr Dymáček, Inst. of Phy. of Mater.; Norimitsu Koga, Kanazawa Univ.

INVESTIGATION ON THE DISTINCTIVE MECHANICAL PROPERTIES AND MICROSTRUCTURE OF MARTENSITIC STAINLESS STEEL SUS420J2 MANUFACTURED BY LASER POWDER BED FUSION
Fahima Husna Tipol, Yusuke Onuki

DISCREPANCY BETWEEN MACROSCOPIC HARDNESS AND MICROSTRUCTURAL EVOLUTION DURING TWO-STEP AGING OF AL-3MG-1CU ALLOY
Haruki Koshikawa, Equo Kobayashi

IMPROVEMENT OF THE VERY HIGH CYCLE FATIGUE STRENGTH BY HIP TREATMENT FOR ADDITIVELY MANUFACTURED MARAGING STEEL
Yuiko Kita, Yoshiyuki Furuya, Koji Takahashi

EFFECTS OF SURFACE DEFECT HEALING ON BENDING STRENGTH AND CYCLIC FATIGUE STRENGTH CHARACTERISITICS OF ADDITIVELY MANUFACTURED ALUMINA
Daichi Abe, Yuya Noguchi, Takaya Nakane, Koji Takahashi

15:20 – 15:40 Coffee Break

15:40 – 17:20 Biomedical Materials
Session Chairs: Josef Hlinka, VŠB-TUO; Ryutaro Matsumura, Inst. of Sci. Tokyo

ON THE FAILURE OF PEDICLE SCREWS DURING THEIR EXPOSURE IN HUMAN VERTEBRAE
Natália Králová, Milan Jarý, Dinara Sobola, Veronika Mazánová, Petr Marcián, Antonín Dlouhý

EFFECT OF Nb ADDITION ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF BIOMEDICAL Ti-Zb-BASED ALLOYS
Yuta Komatsu, Equo Kobayashi

FABRICATION AND MECHANICAL CHARACTERIZATION OF TITANIUM WITH A DENSE-POROUS-DENSE LAYERED STRUCTURE FOR INTERNAL FRACTURE FIXATION APPLIANCES
Yuichi Fujita, Equo Kobayashi

EFFECT OF β-TCP CONTENT ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF TI-6AL-4V/β-TCP COMPOSITES FABRICATED BY SPARK PLASMA SINTERING
Morota Moeka, Equo Kobayashi

FROM PROTOTYPE TO RELIABLE MEDICAL DEVICE: A RISK-BASED DEVELOPMENT APPROACH
Lukas Peter

17:20 – 17 :30 **Announcement**

18:30 – 20 :30 **Gala Dinner** **Aoki Sengyoten**
三代目魚河岸 青木鮮魚店 鶴屋町店
https://asahi-br.co.jp/aoki-sengyoten/

Wednesday, November 18, 2026

9:00 – 10:40 **Deformation Mechanisms and Microstructural Evolution**
Session Chairs: Hiroyuki Dannoshita, Inst. of Sci. Tokyo; Martin Negyesi, VŠB-TUO

ULTRA-FINE GRAINED STRUCTURE DEVELOPED DURING COOLING IN CU/FE MULTILAYERED SHEET
Shunpei Okawa, Norimitsu Koga, Chihiro Watanabe

EMERGENCE OF DISCLINATIONS AND COOPERATIVE DEFORMATION AT A SHEARED KINK INTERFACE
Ryutaro Matsumura, Tomonari Inamura

EFFECT OF NONUNIFORMITY IN LAMELLAR SPACING ON PEARLITE GROWTH BEHAVIOR
Toshiki Asaoka, Yusuke Onuki

LOCAL STRESS FIELD FORMED BY THE INCOMPATIBILITY AT THE B2/B19’ INTERFACE AND DISLOCATION INTRODUCTION MECHANISM IN TI-NI SHAPE MEMORY ALLOYS
Gen Hikosaka

ELASTIC AND STRUCTURAL ASSESSMENT OF THE POSTCRITICAL REGIME IN NI–FE(CO)–GA SIGNLE CRYSTALS
Naoki Nohira, Yiming Fan, Masaki Tahara, Volodymyr Chernenko, Hideki Hosoda

10:40 – 11:00 Coffee break

11:00 – 12:40 Advanced Mechanical Characterization

Session Chairs: Naoki Nohira, Inst. of Sci. Tokyo; Gen Hikosaka, Inst. of Sci. Tokyo

BEYOND HARDNESS: STANDARDIZED IN-FIELD EVALUATION OF MECHANICAL PROPERTIES AND RESIDUAL STRESS FROM A SINGLE INDENTATION USING IIT
Dongil Kwon, Junghwa Hong

FORMATION OF ZrB_2-BASED ULTRA-HIGH-TEMPERATURE CERAMICS COATINGS BY PARTICLE COLLISION AND THE MECHANICAL PROPERTIES
Haruto Oishi, Ryuzo Yamada, Makoto Hasegawa

QUANTITATIVE COMPRARISON OF DISLICATION DENSITY EVALUATED BY DIFFRACTION METHODS AND CRYSTAL PLASTICITY FINITE ELEMENT ANALYSIS
Hiroyuki Dannoshita, Shinji Muraishi

APPLICABILITY OF REPRESENTATIVE STRESS-STRAIN SPHERICAL TIP INDENTATION APPROACH FOR EVALUATING ELASTIC-PLASTIC BEHAVIOUR OF SINGLE-CRYSTAL CERAMICS
Martin Negyesi, Kamil Postava, Bohumir Strnadel

MATUR – CENTRE OF EXCELLENT RESEARCH IN MATERIALS AND TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT
Trávníková Veronika

12:40 – 13:00 Closing of Lectures

Bohumír Strnadel, Conference co-chairman

13:00 – 13:10 Announcement

Makoto Hasegawa, Conference secretary

13:10 – 14:10 Lunch (Lunch Box)

Free Time

Thursday, November 19, 2026

08:00	**Meeting at Yokohama Station & Departure for Yokosuka**
08:50	**Arrival in Yokosuka**
	Tour of Yokosuka
	Lunch
	Round table discussion
17:00	**Breaking up on the spot**

Round Table Discussion & Tour

The Yokosuka tour offers participants an opportunity to explore Japan's naval history, maritime heritage, and natural scenery. The tour includes visits to major sightseeing attractions in Yokosuka, such as Yokosuka Naval Port, the historic battleship Mikasa, and Sarushima Island. Participants can learn about Japan's naval history and technological development while enjoying the beautiful coastal scenery of Tokyo Bay.
All tours will depart from Yokohama Station at 8:00 a.m. Participants are requested to gather at the designated meeting point by 7:45 a.m. We will travel to Yokosuka by train and then divide into two courses. Enrollment can be made at the registration desk.

- **Course 1: Yokosuka Naval Port Cruise (Half-day Tour, Finish time: approx. 12:00)**

You will visit Verny Park, which offers beautiful views of Yokosuka Naval Port, and enjoy a 45-minute cruise around the port. During the cruise, you will have an opportunity to see ships of the Japan Maritime Self-Defense Force and the U.S. Navy. The tour will finish in Yokosuka at approximately noon.

- **Course 2: Yokosuka Naval Port Cruise, Sarushima Island, and Historic Battleship Mikasa (Finish time: approx. 17:00)**

This course includes all three major attractions in Yokosuka. You will first visit the historic battleship Mikasa, followed by a trip to Sarushima Island to explore its historic military remains and natural scenery. After lunch at Yokosuka Port Market, you will enjoy a 45-minute cruise around Yokosuka Naval Port, where ships of the Japan Maritime Self-Defense Force and the U.S. Navy can be seen. This course provides a comprehensive experience of Yokosuka's naval history and maritime heritage.

Note: All courses will depart from Yokohama Station at 8:00 a.m. and finish in Yokosuka. The itineraries are subject to change depending on weather conditions, boat schedules, and availability.