PRESS RELEASE

国立大学法人 長崎大学 NAGASAKI UNIVERSITY

2026 年 3 月 6 日

報道機関　各位

F-REI 国際シンポジウムⅡ
「原子力災害のレジリエンスおよび科学に関するデータと知識の収集・発信」を開催

Collection and Dissemination of Data and Knowledge Related to Nuclear Disaster Resilience and Science

～長崎大学福島未来創造支援研究センター～

長崎大学 福島未来創造支援研究センター（センター長 高村昇教授）は、福島国際研究教育機構（F-REI、エフレイ）より委託を受けて、本年 3 月 12 日（木）に F-REI 国際シンポジウムⅡ「原子力災害のレジリエンスおよび科学に関するデータと知識の収集・発信 “Collection and Dissemination of Data and Knowledge Related to Nuclear Disaster Resilience and Science” 」を福島県双葉町の東日本大震災・原子力災害伝承館で開催します。

この国際シンポジウムは、2025 年 11 月に実施した F-REI 国際シンポジウム「原子力災害に関するデータや知見の集積・発信」分野の研究によって得られた知見の展開と、研究ネットワークの拡大を目指して実施するものです。

シンポジウムでは、災害医療と心のケア（精神・心理的課題）という 2 つのテーマに焦点を当てます。具体的には、原子力災害という特殊な状況で生じる心理的反応と、PTSD など一般的な心理反応の違いを分かりやすく解説します。さらに CBRNe (化学・生物・放射線・核・爆発物）リスク評価の専門家を招き、教育・訓練・防災の取り組みに役立つ最新の知見を紹介します。

またシンポジウムの最後には（15 時 40 分から）は　第 4 分野（放射線科学・創薬医療、放射線の産業利用）副分野長の山下俊一氏、第 5 分野（原子力災害に関するデータや知見の集積・発信）原子力災害医科学ユニットリーダーの高村昇氏が“**Discussion about nuclear disaster resilience and science with Participants**”（若手研究者・専門家と原子力災害への備えと教育、科学的知見の蓄積等についての意見交換）を行います。

※F-REI 国際シンポジウムの様子（2025 年 11 月　J-Village）

▶セミナー概要

日時：2026 年 3 月 12 日（木）13:00～16:45

会場：東日本大震災・原子力災害伝承館（ 福島県双葉郡双葉町大字中野字高田 39)、研修室

実施形態：会場での対面参加とオンラインでのハイブリッド開催

言語：英語（同時通訳なし）

対象者：大学・研究機関の研究者、行政機関の職員、大学生

参加費：無料

▶内容　全体スケジュールは添付を御参照ください。
　　すべてのプログラムについて、取材が可能です。

▶取材申込について

取材を希望される場合は、事前に下記までご連絡をお願いいたします。

【本リリースに関するお問い合わせ先】
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Organized by
Nagasaki University & F-REI

2025 F-REI International Symposium Ⅱ

Collection and Dissemination of Data and Knowledge Related to Nuclear Disaster Resilience and Science

REGISTRATION

https://forms.cloud.microsoft/r/BbAxvq86Ak

Please register your information in advance to watch online.

STREAM LINK

https://nagasakiuniversity-260.my.webex.com/nagasakiuniversity-260.my/j.php?MTID=m4bd95673f404a7c7c156a13d0b76cca7

12 March 2026
13:00–16:35

THE GREAT EAST JAPAN EARTHQUAKE AND NUCLEAR DISASTER MEMORIAL MUSEUM

※恐れ入りますが、上記 Formsより事前登録の上、ご視聴ください。

Program

1300-1305
Opening Remarks

- ***Professor Noboru TAKAMURA***
  Unit Leader, Nuclear Disaster Medical Science Unit, Fukushima Institute for Research, Education and Innovation

1305-1320
Self-introduction of participants

1320-1520
Session 1
Invited speakers' session on the field of nuclear disaster resilience and sciences

Moderator: Professor Shunichi Yamashita

- ***Dr. Francesco GERI***
  Civil Protection Specialist
  Italian Civil Protection – Italian Prime Ministry Office
- ***Associate Professor Andrea MALIZIA***
  University of Rome Tor Vergata
- ***Professor Richard MILLS***
  University of Bath, Associate Consultant and Head of Research and Clinical Support AT-Autism
- ***Director Christopher ATKINS***
  Head of Policy, Education, and Social Care
  AT-Autism

1520-1540
Coffee Break

1540-1630
Session 2
Discussion about nuclear disaster resilience and science with Participants

Moderator: Professor Noboru Takamura

- Early career researchers and invited speakers will discuss Fukushima's recovery and future research directions based on their respective backgrounds

1630-1635
Summary Remarks

- ***Professor Noboru TAKAMURA***
  Unit Leader, Nuclear Disaster Medical Science Unit, Fukushima Institute for Research, Education and Innovation

From National Planning to International Resilience: The Italian Radiological and Nuclear Emergency Framework as a Model for Post-Fukushima Preparedness

This contribution presents the Italian National Plan for the Management of Radiological and Nuclear Emergencies (EP-RN) as a structured governance model for preparedness, response, and recovery in large-scale radiological crises, drawing lessons from Fukushima and European cross-border risk scenarios.

The EP-RN, developed under the coordination of the Italian Civil Protection system, defines operational responsibilities, decision-making chains, protective measures, and communication strategies across all phases of an emergency, from early release to long-term recovery.

The presentation introduces the institutional framework behind the plan, highlighting Italy's integrated approach to public protection, environmental monitoring, and food chain control, and illustrates how numerical forecasting tools (e.g., ARIES) support real-time decision making and population protection.

Particular attention is given to the recent full-scale national exercise (CONEX-3), which tested coordination mechanisms and information flows among authorities, first responders, and technical bodies.

In the context of Fukushima's reconstruction, the Italian experience demonstrates the importance of legally grounded planning, predefined intervention models, and transparent communication in restoring public trust and ensuring long-term resilience.

A further theme to be developed together could be related to Natech risks, understood as Natural-hazard (earthquake, tsunami, floods) triggered technological accidents, which can have serious impacts on industrial complexes (chemical, nuclear) with potentially significant effects on the population, environment, and economy. In this context, the Natech risk management approach can be developed through the systemic approach applied to the civil protection activity cycle (forecast, prevention, emergency, and recovery).

The contribution also outlines current and future cooperation between Italian institutions and Japanese research centers, including F-REI, in the domains of emergency planning, scenario harmonization, and training of decision makers. Future proposals to the F-REI program include joint comparative research on national emergency plans, shared exercises, and capacity-building initiatives for young professionals and public authorities, strengthening human development and institutional resilience in radiological risk governance.

Dr. Francesco GERI

Department of Civil Protection – Italian Prime Ministry Office

Director of the working group that has prepared the National Emergency Plan against RN emergencies
PhD candidate in Industrial Engineering

From Data to Decisions: Simulation, Mapping, and Education as Pillars of Radiological and CBRNe Resilience between Italy and Japan

This presentation illustrates the research, training, and technological activities of the University of Rome Tor Vergata in the field of radiological and CBRNe risk assessment, with a specific focus on numerical simulations, geospatial modeling, and human capacity building, developed in dialogue with Japanese institutions after Fukushima.

The work introduces an integrated approach that combines dispersion modeling, interpolation of monitoring data, and continuous mapping to support decision makers, responders, and the population during complex emergencies.

The contribution presents advanced tools for generating dynamic, georeferenced radiation maps from sparse monitoring networks, numerical simulations of accidental releases, and AI-assisted systems for plume tracking and scenario evolution. These tools are designed not only for emergency response but also for training, preparedness, and communication, bridging the gap between scientific data and operational decisions.

Fukushima's reconstruction highlights the long-term value of sustained education, transparent data sharing, and international cooperation.

In this perspective, the International Master Courses in Protection against CBRNe Events, coordinated by Tor Vergata, represent a concrete platform for developing the next generation of experts through multidisciplinary training, simulations, and field exercises.

The presentation proposes the creation of a joint Italian–Japanese didactic and research laboratory, shared numerical scenarios, and exchange programs for students, researchers, and instructors with F-REI and partner universities. These actions aim to strengthen research integration, human development, and the transfer of knowledge from Fukushima's legacy to global radiological and CBRNe resilience.

Dr. Andrea MALIZIA

Department of Biomedicine and Prevention and Department of Industrial Engineering, University of Rome Tor Vergata (Italy)

Associate Professor in Nuclear Measurements and Instrumentations
Director of the two International Master Courses in Protection Against CBRNe events (First Level and Second Level)

Quality of Life and Wellbeing
Can these concepts help with community reconstruction?

AT-Autism is a UK-based international neuroinclusive not-for profit organisation specialising in matters related to autism and neurodevelopment. This includes clinical, research, education, advocacy, programme evaluation and specific training programmes such as Synergy, SPELL and the National Autism Trainer Programme.

The presentation explores how a systematic measurement of wellbeing could assist in community reconstruction, such as regional events requiring an assessment of impact on specific communities and remediation.

I will share my experience of visiting the region in the immediate aftermath of the Fukushima nuclear incident.

I will discuss the Personal Wellbeing Index (PWI), an internationally validated instrument for assessing Wellbeing. It has strong psychometric qualities, free to use and administer, is brief and ethical. A study of the PWI in children in Japan by Prof Uchiyama confirmed it is suited to this population.

It separates General life satisfaction (GLS) a measure of Homeostatically Protected Mood, from the other key domains of subjective wellbeing. We should not conflate objective criteria such as status and possessions, with subjective criteria related to feelings of satisfaction with life.

Our recent study of the Personal Wellbeing Index in the UK population also looked at several subsets, such as comparing male and female and the different countries of the UK. It compared the wellbeing of autistic adults with the general population.

I conclude with some key take home points on how the PWI can assist the reconstruction of the region affected by the Fukushima nuclear incident.

Dr. Richard MILLS

AT-Autism UK
Associate Consultant and head of Research and Clinical Support

A Research Fellow in the Department of Psychology at the University of Bath, and also a Research Fellow at the University of New England, NSW, Australia.In Japan, a Visiting Professor at Fukushima University and formerly a Visiting Professor at the Japan Centre for Autism Research (J-CAAR) at Taisho University, Tokyo.

"Reconstructing Community.... can the Synergy approach help?"

This presentation considers how the Synergy Programme – a trauma-informed, psychologically grounded, reflective practice framework – can support effective and sustainable community reconstruction in the aftermath of disruption, conflict, or crisis. Traditional reconstruction efforts tend to prioritise physical infrastructure; however, long-term resilience depends equally on rebuilding trust, cohesion, shared identity, and inclusive cultural practices. Drawing on interdisciplinary foundations from psychology, sociology, physiology, ethics, and philosophy, the Synergy approach emphasises the central role of supporter mindset, reflective practice, and intentional action planning in promoting safe, relationally sensitive environments.

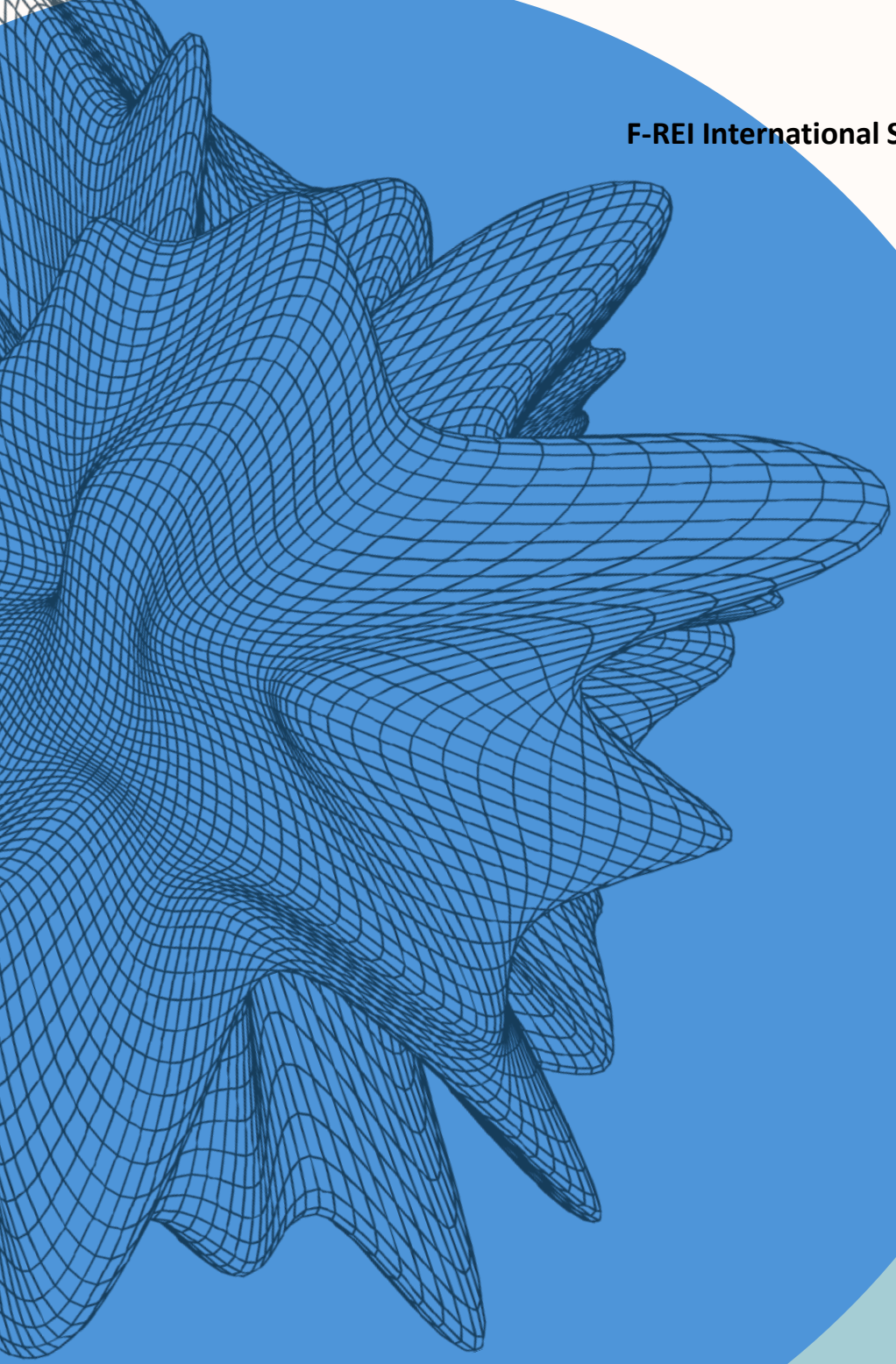
The presentation outlines the programme's three-stage process of Awareness, Reflection, and Action, highlighting how individuals and teams can shift from fast, emotionally driven "System 1" responses toward slower, reflective "System 2" reasoning (after Kahneman). This cognitive shift reduces stress, mitigates risk, and fosters more empathic, culturally aligned decision-making. In community reconstruction contexts, Synergy supports trauma-informed practices that challenge biases, strengthen social connection, and re-establish predictable routines that nurture wellbeing and belonging.

Cultural flexibility is a defining feature, enabling the framework to work with local traditions, values, and collective responsibilities rather than imposing external models. The presentation concludes by demonstrating how Synergy contributes to inclusive regeneration, capacity-building, and long-term community resilience. Through embedding reflective processing and collaborative practice, Synergy offers a practical and ethically grounded pathway for reconstructing communities where all citizens can thrive.

Dr. Christopher ATKINS

AT-Autsim UK

Director and Head of Policy, Education, and Social Care



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