

International Conference on Fall Prevention and Protection 2013



October 23 to 25, 2013
Tokyo, Japan



JNIOOSH

National Institute of Occupational Safety and Health, Japan

JNIOOSH



Sponsored by:

NIOSH



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Japan Safety Appliances Association
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JCOSHA

Japan Construction Occupational Safety and Health Association



MIDORI ANZEN

About ICFPP2013

The IEA Technical Committee on Slips Trips and Falls and National Institute of Occupational Safety and Health, Japan would like to invite you to submit papers for presentations at the International Conference on Fall Prevention and Protection 2013 (ICFPP2013).

The conference will be held on 23th - 25th October 2013 at the National Institute of Occupational Safety and Health (JNIOSH), Tokyo, Japan. An optional tour of part of the JNIOSH will be offered at the end of the conference.

Committees

The Conference will provide a technical forum on various aspects of fall prevention and protection including slips, trips. Safety researchers and others around the world will present their latest work and exchange research ideas.

Papers that address industrial safety (construction, manufacturing, tertiary industries), safety at home and safety during leisure-time are all welcomed.

To reduce injuries & fatalities due to falls, slips and trips, we are particularly interested in papers on practical analysis, accident investigation, case studies, risk-assessment, design, architecture, flooring, footwear, cleaning, human factors, success stories, falls from vehicles and steps & stairs.

Organizing Committee

Dr. Wen-Ruey Chang (U.S.A.)
Dr. Hongwei Hsiao (U.S.A.)

Prof. Kenji Kobayashi (Japan)
Dr. Hisao Nagata (Japan)
Mr. Hideki Nawata (Japan)
Dr. Katsutoshi Ohdo (Japan)
Mr. Kuniomi Sasaki (Japan)
Mr. Hajime Takahashi (Japan)
Dr. Yasuo Toyosawa (Japan)

Local Organizing Committee

Dr. Yasuo Toyosawa (Chair)
Dr. Katsutoshi Ohdo
Mr. Yasumichi Hino
Dr. Hiroki Takahashi

Registration

Participant: 25,000 JPY

Accompanying person: 15,000 JPY

Registration Fee for participant includes for all conference lunches, coffee breaks, banquet, and conference proceedings.

Registration Fee for accompanying person includes only for all conference lunches and banquet.

If the accompanying person attends only a banquet (no lunches), please contact the ICFPP2013 secretariat, ICFPP2013@s.jniosh.go.jp.

If you are a vegetarian, please contact the ICFPP2013 secretariat, ICFPP2013@s.jniosh.go.jp.

Program

October 23, Wednesday

Session	Time	Authors	Title
Opening Speech	13:25-13:30	Yasuo Toyosawa	
Accident Analysis (Chair: Hisao Nagata)	13:30-13:45	Xiuwen Sue Dong, Xuanwen Wang, Julie Largay and Sang D. Choi	FATAL FALLS IN U.S. RESIDENTIAL CONSTRUCTION
	13:45-14:00	Tetsuo Hojo and Katsutoshi Ohdo	ANALYSIS ON CHARACTERISTICS OF FALL ACCIDENTS IN CONSTRUCTION INDUSTRY
	14:00-14:15	Sylvie Leclercq	CONTROLS IN WORK SITUATIONS REVEALED BY ORGANISATIONAL SLIP, TRIP AND FALL ACCIDENT (STFA) FACTORS. CONSEQUENCES FOR PREVENTION
	14:15-14:30	Akihiro Ohnishi, Akiko Takahashi and Shoken Shimizu	CHARACTERISTICS OF INDUSTRIAL FALL ACCIDENTS IN ELDERLY WORKERS IN JAPAN
	14:30-14:45	Macky Kato, Yoshie Shimodaira, Takeshi Sato and Hiromi Iida	SIMPLIFICATION AND TRANSFORMATION OF ASTM F1292-09 MEASUREMENT PROCEDURE FOR FALL ACCIDENT INJURY CRITERIA
	14:45-15:00	Jake Pauls and Ben Barkow	COMBINING RISKS FROM TWO LEADING FACTORS IN STAIR-RELATED FALLS
Coffee Break	15:00-15:30		
Slip, Trip, and Fall 1 (Chair: Sylvie Leclercq)	15:30-15:45	Carl Strautins and Martin Daniel	INTEGRATION OF SLIP RESISTANCE VALUES WITHIN A RISK MANAGEMENT FRAMEWORK: A HUMAN GAIT BASED APPROACH USING REFERENCE SAMPLES
	15:45-16:00	In-Ju Kim and Anas Alduhishy	EXPERIMENTAL EVIDENCE ON WEAR BEHAVIOURS OF FLOOR SURFACES AND AN APPLICATION FOR SLIP AND FALL SAFETY ASSESSMENTS
	16:00-16:15	Hanatsu Nagano, W.A. Sparrow, Richard Bowman and Rezaul Begg	A BIOMECHANICAL MODEL OF THE SPACING AND WIDTH EFFECTS OF ANTI-SLIP STRIPS
	16:15-16:30	Andrew Stewart	SUSTAINABLE SLIP RESISTANCE, AND PROACTIVE SLIP PREVENTION
	16:30-16:45	Jake Pauls	RELATING STAIR NOSING PROJECTION, TREAD RUN DIMENSION, SHOE GEOMETRY, DESCENT BIOMECHANICS, USER EXPECTATIONS, OVERSTEPPING MISSTEPS, AND CLOSED-RISER HEEL SCUFF MISSTEPS
	16:45-17:00	Rodney A. Hunter	SLIP RESISTANCE OF TACTILE GROUND SURFACE INDICATORS

Program

October 24, Thursday

Session	Time	Authors	Title
Education and Mobile Device (Chair: Yasumichi Hino)	9:00-9:15	Hiroki Takahashi, Tomohito Hori and Yasuo Toyosawa	CAUSES AND MEASURES OF FALL ACCIDENTS ON RESTORATION WORK AFTER THE GREAT EAST JAPAN EARTHQUAKE
	9:15-9:30	Katsutoshi Ohdo	EFFECTS OF COUNTERMEASURES FOR SCAFFOLD-RELATED FALLS IN JAPAN
	9:30-9:45	Michiyuki Hirokane, Sho Banba and Katsutoshi Ohdo	DEVELOPMENT OF AR BASED SAFETY EDUCATION SUPPORT SYSTEM IN CONSTRUCTION SITE
	9:45-10:00	Akiko Takahashi, Motoya Takagi, Makoto Mishina, Kan Shimazaki and Toshiro Ishida	EFFECTIVENESS OF A TABLET-PC-BASED SAFETY-TRAINING TOOL FOR CONSTRUCTION WORKERS- AGE-RELATED COMPARISON
	10:00-10:15	Bing-Shiang Yang, Yu-Ting Lee and Cheng-Wei Lin	ON DEVELOPING A REAL-TIME FALL DETECTING AND PROTECTING SYSTEM USING MOBILE DEVICE
Coffee Break	10:15-10:45		
Fall from Stair (Chair: Wen-Ruey Chang)	10:45-11:00	Jake Pauls	DIFFERENT PATTERNS OF HANDRAIL USE AT JUNCTIONS OF SWITCHBACK STAIRWAY FLIGHTS
	11:00-11:15	Alison C. Novak, Vicki Komisar, Brian Maki and Geoff Fernie	AGE-RELATED EFFECTS OF VARYING STEP GEOMETRY & BIOMECHANICAL FALLS RISK DURING STAIR DESCENT
	11:15-11:30	Rodney A. Hunter	NOSING SHAPE, NOSING TEXTURE, TREAD TEXTURE AND STAIRWAY SLIP RESISTANCE
	11:30-11:45	Hisao Nagata	CASE STUDY OF A FATAL FALL FROM STAIRS: CAN WE DETERMINE THE FALLING PATTERNS OF A FATAL FALL FROM STAIRS?
	11:45-12:00	Richard Bowman	RECURRENT SYSTEMIC SLIPS?
Lunch	12:00-13:00		
Opening Speech for Workshop	13:00-13:05	Yutaka Maeda	
Keynote Addresses 1 (Chair: Yasuo Toyosawa)	13:05-13:30	Hongwei Hsiao	A TOTAL WORKER SAFETY APPROACH FOR PREVENTING SLIPS, TRIPS, AND FALLS
	13:30-13:55	Woonchul Shin	STUDY TREND OF SLIP, TRIP, FALL(STF) IN KOREA
	13:55-14:20	Alan Chan and Wah-Shing Tang	A HOLISTIC APPROACH ON FALL PREVENTION AND PROTECTION IN HONG KONG
	14:20-14:45	Suresh Navaratnam	ADDRESSING FATALITIES AND INJURIES AT WORK DUE TO FALLS- THE SINGAPORE JOURNEY
Coffee Break	14:45-15:00		
Keynote Addresses 2 (Chair: Katsutoshi Ohdo)	15:00-15:25	Sylvie Leclercq, Michel Arvaut and Michel Jacques	PREVENTION OF OSTFA (OCCUPATIONAL SLIPS TRIPS AND FALLS ACCIDENTS): THE ACTIVITIES AND PERSPECTIVES OF THE INRS
	15:25-15:50	Wen-Ruey Chang, Sylvie Leclercq, Roger Haslam and Thurmon Lockhart	THE STATE OF SCIENCE ON OCCUPATIONAL SLIPS, TRIPS AND FALLS ON THE SAME LEVEL
	15:50-16:15	Ian Noy	CURRENT PRIORITIES IN FALL PREVENTION RESEARCH AT THE LIBERTY MUTUAL RESEARCH INSTITUTE FOR SAFETY
	16:15-16:40	Hideo Kamaishi	PRESENT SITUATION AND FUTURE DIRECTION OF FALL ACCIDENT PREVENTION MEASURES BASED ON THE INDUSTRIAL SAFETY AND HEALTH LAW
Panel Discussion (Chair: Yasuo Toyosawa)	16:40-17:10	Hongwei Hsiao, Woonchul Shin, Alan Chan, Suresh Navaratnam, Sylvie Leclercq, Wen-Ruey Chang, Ian Noy, Hideo Kamaishi	
Banquet (Hotel Chinzanso Tokyo)	19:00-21:00		

Program

October 25, Friday

Session	Time	Authors	Title
Slip, Trip, and Fall 2 (Chair: Hiroki Takahashi)	9:00-9:15	Yasumichi Hino, Hiroki Takahashi and Katsutoshi Ohdo	EXPERIMENTAL STUDY ON FUNDAMENTAL PERFORMANCE OF SAFETY BELTS FOR FALL PREVENTION
	9:15-9:30	Noriyuki Horii, Masao Suzuki and Kazuhiko Takeishi	ROLLING CHARACTERISTICS OF WEDGE LOCK SCAFFOLDINGS DURING USE
	9:30-9:45	Yorio Sato	FALL PROTECTION: FROM ROOFTOP SNOW REMOVAL TO GENERAL WORK ACTIVITIES AT HEIGHTS
	9:45-10:00	Hiroichi Ono	THE APPLICATION OF "HUMAN-CARE SAFETY NET" INCLUDING THE USE OF PERSONAL PROTECTORS AS A NEW APPROACH TO THE PREVENTION OF FALL ACCIDENTS
	10:00-10:15	Kazuhito Shiina	A COMPARATIVE ANALYSIS OF NEAR-MISS FALLING & SLIPPING INCIDENTS AT INDOOR AND OUTDOOR TELECOMMUNICATION CONSTRUCTION SITES
	10:15-10:30	Kazuharu Kasai	ACTIVITY REPORT OF JIS STANDARDS DEVELOPMENT COMMITTEE ABOUT THE TEST METHODS OF SLIP RESISTANCE OF PROTECTIVE FOOTWEAR AND OCCUPATIONAL FOOTWEAR
Coffee Break	10:30-11:00		
Slip, Trip, and Fall 3 (Chair: Hongwei Hsiao)	11:00-11:15	Jennifer Hsu and Geoff Fernie	MAXIMUM ACHIEVABLE INCLINES FOR FOOTWEAR WHILE WALKING ON ICY SLOPES AND CROSS-SLOPES
	11:15-11:30	Jae-Suk Park	THE CONTACT TIME AND THE CONTACT PRESSURE AS THE PARAMETERS OF THE SLIP RESISTANCE
	11:30-11:45	Terence J Fischer and Jamie S A Fischer	FORENSIC HUMAN FACTORS ANALYSIS OF SLIP AND FALL INCIDENTS USING A VARIABLE INCIDENCE TRIBOMETER
	11:45-12:00	Takeshi Yamaguchi, Kenichi Kasuga, Satoru Ishizawa and Kazuo Hokkirigawa	DEVELOPMENT OF HIGH SLIP-RESISTANT OUTSOLE USING HYBRID RUBBER SURFACE PATTERN TO PREVENT SLIPS AND FALLS ON CONTAMINATED FLOORS
	12:00-12:15	Wen-Ruey Chang, Simon Matz and Chien-Chi Chang	AVAILABLE COEFFICIENT OF FRICTION ASSOCIATED WITH DIFFERENT SLIP PROBABILITIES FOR LEVEL WALKING
Closing Speech	12:15-12:20		
Lunch	12:20-13:30		
JNIO SH Tour	13:30-16:00		

Accommodation

Please find the hotels with English-speaking staff, located near Ikebukuro and Tokorozawa stations as described below.

Hotels near Ikebukuro

Hotel Chinzanso Tokyo

5 stars

<http://www.hotel-chinzanso-tokyo.com/>

-3.0 kilometers to Ikebukuro Station of Seibu Ikebukuro Line

-0.7 kilometers to Edogawabashi Station of Tokyo Metro Yurakucho Line,
(Airport Limousine Bus stops in front of the hotel entrance).

Hotel Metropolitan Tokyo

3.5 stars

<http://www.metropolitan.jp/e/>

-0.35 kilometers to Ikebukuro Station of Seibu Ikebukuro Line,

(Airport Limousine Bus stops in front of the hotel entrance).

Sunshine City Prince Hotel Ikebukuro Tokyo

3 stars

<http://www.princehotels.com/en/sunshine/>

-0.95 kilometers to Ikebukuro Station of Seibu Ikebukuro Line,

(Airport Limousine Bus stops in front of the hotel entrance).

Hotel near Tokorozawa

Tokorozawa Park Hotel

3.5 stars

<http://www.tokorozawa-parkhotel.co.jp/english/>

-0.6 kilometers to Tokorozawa Station of Seibu Ikebukuro Line,
(0.6 kilometers to Airport Limousine Bus Stop near Tokorozawa Station).

International Conference on Fall Prevention and Protection 2013



Venue & Travel Info

Location

National Institute of Occupational Safety and Health (JNIOSH), Kiyose District

Umezono 1-4-6, Kiyose, Tokyo
204-0024 JAPAN
TEL: +81-42-491-4512
FAX: +81-42-491-7846

From Airport to Ikebukuro

The easiest way to go to Ikebukuro is to take a Bus connected from each airport terminal.

From Narita Airport to Ikebukuro (by Airport Limousine)

-Takes about 75-140 minutes / 3,000 JPY
-Please get off at Hotel Metropolitan, next to the station.
-About Timetable and Bus Stops, please refer to Narita Airport Limousine website.

From Haneda Airport to Ikebukuro (by Airport Limousine)

-Takes about 35-80 minutes / 1,200 JPY (2,000 JPY in early morning & midnight)
-Please get off at Ikebukuro Station West Exit.
-About Timetable and Bus Stops, please refer to Haneda Airport Limousine website.

From Ikebukuro to JNIOSH

From Ikebukuro to Kiyose Station and take the south exit (by Seibu Ikebukuro Line)

-Takes about 30 minutes / 260 JPY
-Please get off at Kiyose Station South Exit.
-About Timetable and others, please refer to Seibu Railway website.

Timetable at Ikebukuro Station

(http://www.seibu-group.co.jp/railways/tourist/english/timetables_fares/timetables_ikebukuro.pdf)

From Kiyose Station to JNIOSH by Public Transport (By Bus)

- From the south exit of the station take a Seibu bus from the No. 2 bus stop (5 minutes)
-Get off the bus at the National Tokyo Hospital Kita bus stop (1 minute walk)

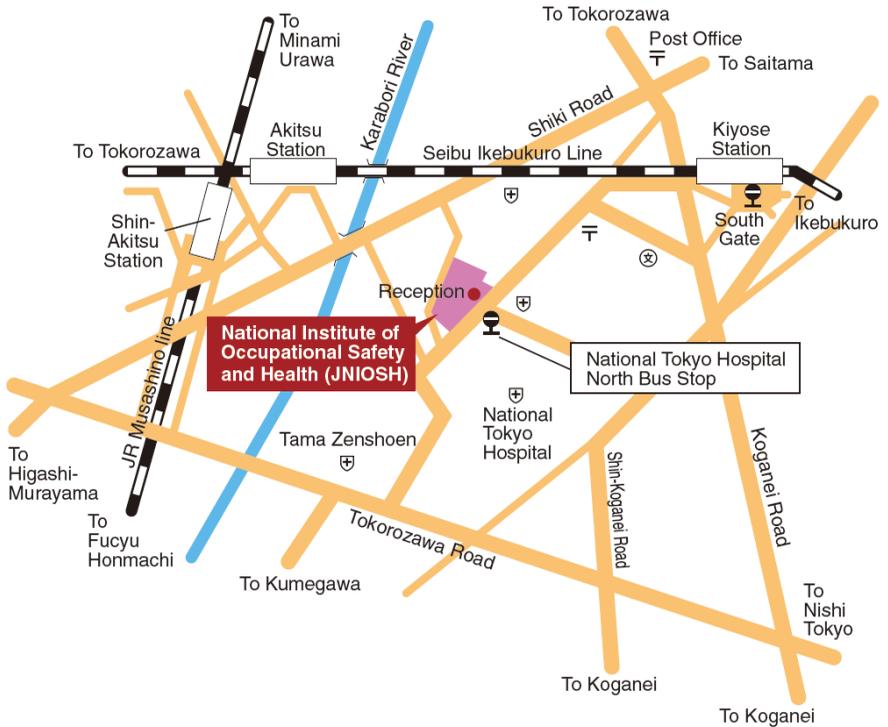
By Taxi

-Take a taxi from the Seibu Ikebukuro line Kiyose station
-The Seibu Ikebukuro line Akitsu station
-The JR Musashino line Shin-Akitsu station (5 minutes)

On Foot

-From the Seibu Ikebukuro line Kiyose station (15 minutes)
-From the Seibu Ikebukuro line Akitsu station (30 minutes)
-From the JR Musashino line Shin-Akitsu station (30 minutes)

Access Map



Conference Hall

Hall is in the Headquarters, the nearest building from the Front Gate.

