

# WCOGI 2014

the 5<sup>th</sup> World Conference on the Safety of Oil and Gas Industry 1<sup>st</sup> Call for Papers

**Safety and Environment for the Future of Energy and Process Industries**

June 8(Sun.) - 11(Wed.), 2014 Okayama Convention Center, Okayama, Japan



We cordially invite you to submit articles to the 5th World Conference on the Safety of Oil & Gas Industry(WCOGI2014)which will be held in OKAYAMA CONVENTION CENTER Okayama, Japan on June 8-11, 2014.

As an international academic conference, World Conference on the Safety of Oil & Gas Industry (WCOGI)was lunched by the government departments and universities related to the oil and gas production safety from the United States, Korea and European countries in 2006. WCOGI is held for every 1 to 2 years in different countries, aiming to strengthening the international academic exchanges and cooperation for oil and natural gas safety science and engineering, promoting the applications of modern safety science and technology in oil and gas industry, improving the establishment of a people-oriented oil and natural gas safety engineering technology system, reducing the oil industry accidents as well as production losses, and finally realizing the essence of security of oil and gas production.

The conference theme is "Safety and Environment for the Future of Energy and Process Industries" . The 5th World Conference on the Safety of Oil & Gas Industry(WCOGI2014)is a leading international conference for researchers and industry practitioners to share their new ideas, original research results and practical development experiences from all Safety and Environment related areas.

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Kazuhiko Suzuki Japan

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## IPC Secretariat

Yukiyasu Shimada Japan

Kazuhiro Takeda Japan

## Important Dates

Commencement of Abstract Submission :	August 15, 2013
Deadline of Abstract Submission :	November 18, 2013
Acceptance Notification :	January 14, 2014
Submission of Final Papers :	March 14, 2014
Early-Registration :	April, 2014
Final Program Announcement :	May, 2014

## Conference Venue

OKAYAMA CONVENTION CENTER  
14-1, Ekimotomachi, Kitaku, Okayama 700-0024, Japan  
Phone: +81-86-214-1000

## WCOGI2014 Secretariat

**Secretary General** Masashi Wakamatsu (Japan Society for Safety Engineering) / Atsuko Fumoto (Okayama University)

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[www.pac.ne.jp/2014WCOGI/](http://www.pac.ne.jp/2014WCOGI/)



# WCOGI 2014 Topics

## 1. Safety and environmental management against natural disaster

- Mitigation technology against natural disaster
- Emergency control and accident management
- Residual risk of natural disasters and risk management
- Elimination of environmental hazard
- Public acceptance and the role of media for disasters

## 2. Process safety management framework

- Safety metrics and safety indicators
- Business process model
- Hazard control and containment
- Safety-conscious production
- Design rationale and lifecycle engineering
- Management of change

## 3. Risk assessment and management

- Process hazard analysis, quantitative risk assessment
- Emergency response planning
- Risk assessment for transportation of dangerous materials
- Risk assessment and management of new energy infrastructures

## 4. Equipment integrity and instrumentation systems

- Equipment integrity
- Safety instrumented system and functional safety
- Application of non-destructive technology
- Alarm management
- Sensor, control and monitoring system

## 5. Human factors and safety culture

- Human factors in operation
- Management systems
- Process safety performance
- Safety culture
- Human error
- Safety activities towards human error prevention
- Case studies and best practices
- Communication and education

## 6. Learning from accidents

- Accident investigation
- Learning from accidents and knowledge transfer
- Teaching methods and tools
- Experience from other industries
- Communication and education

## 7. Safety and environment for energy production industries

- Environmental impact of the energy industry
- Nuclear waste management from the generation of nuclear power
- Safety and security under low-level radiation environment
- Energy security
- Safety on energy transformation, energy conversion

## 8. Computer-aided methods and tools for process safety

- Cyber security
- Remote engineering
- Tools for hazards identification
- Fault diagnosis
- Modeling and simulation

## 9. Fire, explosion and reactive chemicals, and other topics

- Hazards of fire, explosion, and reactive chemicals
- Prevention and mitigation of accidents involving fire, explosion, and reactive chemicals
- Other topics related to oil-gas and chemical industries safety



## About Okayama



Okayama Korakuen Garden and Okayama Castle  
5 min. from JR Okayama station by city tram. Get off the tram at "Shiroshita" and then walk (15 min.) to the garden.



Kurashiki Bikan Area  
10 min. on foot from the south exit of JR Kurashiki station.



Mizushima Complex  
60 min. from Okayama City by car.