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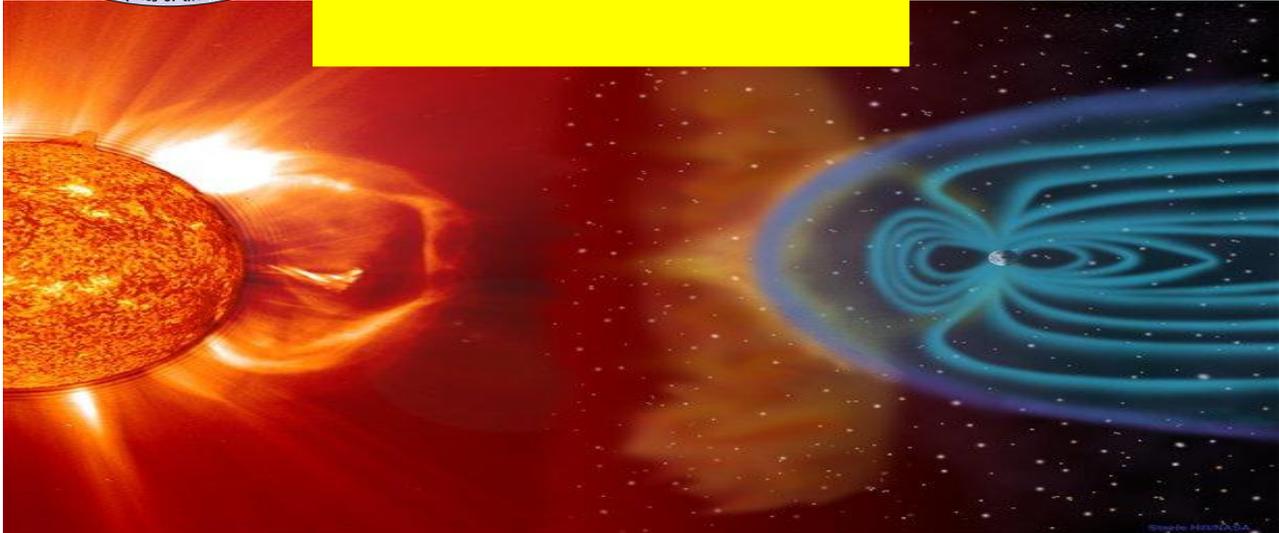
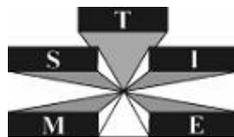


Photo: NASA



www.tiems.org

THE INTERNATIONAL EMERGENCY MANAGEMENT SOCIETY - TIEMS

Call for Papers

International Conference on Space Weather and Challenges for Modern Society

Potential Damaging Consequences and Practical Protection for Industrial Operations and Critical Infrastructure like Electric Power Supply, Communication Systems, Positioning Systems, etc.

Oslo, Norway

22 – 24 October 2012

Supported by

Norwegian Water Resources and Energy Directorate; <http://www.nve.no/en/>

The Norwegian Space Centre; <http://www.spacecentre.no/english/>

The Swedish Institute of Space Physics; <http://www.irf.se/>

Finnish Meteorological Institute; <http://en.ilmatieteenlaitos.fi/>



Further Supporters, Exhibitors and Sponsors are Welcome!

BACKGROUND

2012 – 2013 is expected to be years with high solar activity. This can trigger larger solar storms which can generate geomagnetic induced currents (GIC) on the earth. GIC can affect the normal operation of specific industrial operations and critical infrastructure (e.g power grids, telecom, navigation systems, etc).

During space weather events, like solar storms, electric currents in the magnetosphere and ionosphere experience large variations, which manifest also in the earth's magnetic field. These variations induce currents (GIC) in conductors operated on the surface of the earth. Electric transmission grids and buried pipelines are common examples of such conductor systems. GIC can cause problems, such as increased corrosion of pipeline steel and may disturb and possibly damage high-voltage power transformers and it can also have damaging effects on communication systems, navigation systems and oil and gas operations.

Vulnerable industries are the oil and gas industry, railways, telecommunication industry, navigation industry and not at least the society, which is very vulnerable concerning short or long term interruption of critical infrastructure.

The conference will focus on increasing the general knowledge of solar storms, space weather and GIC and the possible consequences for different industries and critical infrastructure, and look into reasonable means of protection, and consider possible early warning solutions.

Conference Focus

The conference will focus on increasing the general knowledge of solar storms, space weather and GIC and the possible consequences for different industries and critical infrastructure, and look into reasonable means of protection, and consider possible early warning solutions.

The main topics which will be addressed at the conference are:

- ***Solar Storms and Space Weather - History and Experiences***
- ***Stormy Sun - our Current Knowledge***
- ***Effects on Space Infrastructure and Aviation***
- ***Expectations and Effects on Electric Power Supply, Satellites, Telecommunication, Navigation and Oil and Gas Exploration Activity***
- ***Industries Preparedness and Protection Measures***
- ***Predictions of Solar Storms, Warnings, Preparedness Measures and Response***
- ***A Super Storm - What can happen and how to prepare for and handle it?***
- ***Industries and Authorities Handling Strategies and Contentious Level***
- ***Future Expectations***
- ***Other relevant topics related to Risk and Preparedness Measures***

Who Should Attend

The topic is important for political and administrative decision makers, researchers in the field, risk management specialists, relevant vulnerable industry representatives, authorities, insurance industry and others who want to increase their general and specific knowledge on the subject.

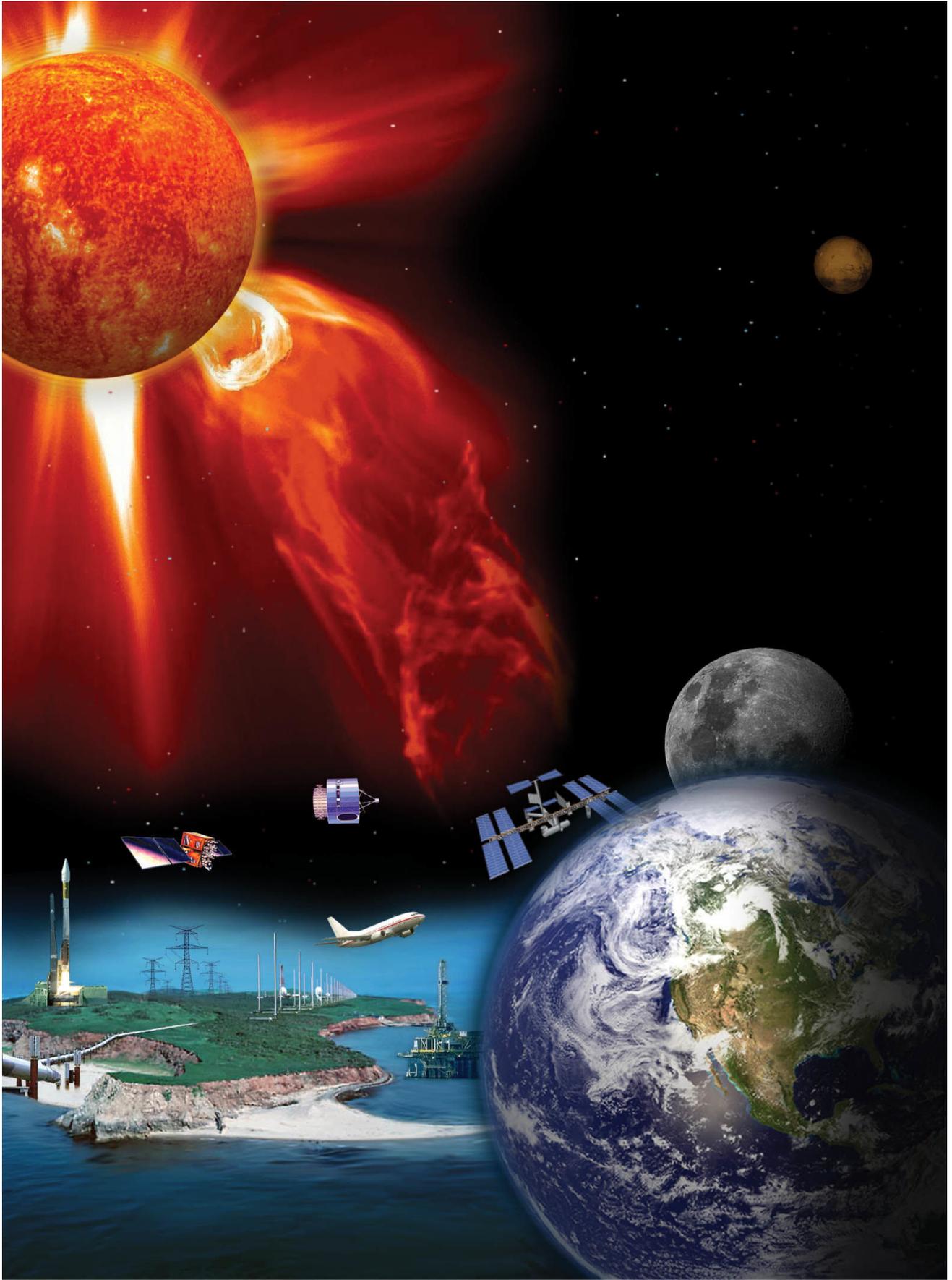


Photo: NASA

Space Weather Perspectives

Call for Papers and Posters

We invite for submission of papers and posters to be presented at the three day conference on the above topics, which will contribute to increasing the general knowledge and risk of solar storms, space weather and GIC and the possible consequences for different industries and critical infrastructure, and presenting reasonable means of protection, and considering possible early warning solutions.

The Conference International Program Committee will select 25 – 30 papers to be presented in the plenary sessions during the three day conference, and those papers not selected for the plenary sessions, will be welcomed to be presented as posters.

Title and Abstract (less than 300 words) to be submitted to TIEMS conference organizer, K. Harald Drager at khdrager@online.no before **1st April 2012**. Both Power Point presentations only and Full Papers and Posters will be accepted, and presentation type needs to be specified in the submission.

The Conference Program Committee will approve papers and posters for presentation at the conference latest **15th April 2012**.

Full Papers and Posters must be submitted latest **15th August 2012**. Papers and Posters shall be no longer than 10 A4 pages. Instruction to Authors will be provided to the authors of approved papers and posters. Power Point Presentations only, need to be submitted latest **1st of October 2012**. Only papers and posters of authors registering for the conference before **15th June 2012** will be included in the Program and the Conference Proceedings.

Approved papers and posters, both full papers and power point presentations only, will be presented in the Conference Proceedings, and some of the papers and posters will be selected for publication in cooperating international journals.

Conference International Program Committee

The Conference International Program Committee members are:

- Pål Brekke, The Norwegian Space Centre, Norway, Chairman;
paal.brekke@spacecentre.no
- Roger Steen, Norwegian Water Resources and Energy Directorate, Norway
- Risto Pirjola, Finnish Meteorological Institute, Finland
- Peter Wintoft, Swedish Institute of Space Physics, Sweden
- Peter Stauning, Danish Meteorological Institute, Denmark
- Alf Olausen, Statnett, Norway
- K. Harald Drager, TIEMS President, Program Organizer and Committee Secretary;
khdrager@online.no

The International Program Committee will be supplemented with additional international members. Please, contact Committee Chairman or Secretary for interest to be a member of the International Program Committee. The International Program Committee will review papers and posters and approve which ones will be presented at the conference, and included in the Final Conference Program.

Conference Venue



Photo: VisitOslo

The conference will take place in Oslo, Norway at Grand Hotel, www.grand.no, located in the centre of Oslo, with direct access to the main street, Carl Johan and opposite the Parliament building (Stortinget). Grand Hotel is amongst others famous for housing the Nobel Peace Prize Laureates during their stay in Oslo for the Peace Price Ceremony.



Photo: Grand Hotel

Conference Tentative Program Concept

Monday October 22, 2012

- 08:00 – 10:00 *Registration and Coffee*
- 10:00 - 10:45 *Opening and Welcome*
- 10:45 - 1130 *Introductory Keynote – Issues at Stake*
- 11:30 - 12:00 *Solar Storms and Space Weather - History and Experiences*
- 12:00 - 13:30 *Lunch*
- 13:30 - 15:00 *Stormy Sun - our Current Knowledge*
- 15:00 - 15:30 *Coffee and Poster Viewing*
- 15:30 – 17:00 *Effects on Space Infrastructure and Aviation*
- 17:00 - 20:00 *Reception with a popular Lecture on Northern Light Science*

Tuesday October 23, 2012

- 09:00 - 10:30 *Expectations and Effects on Electric Power Supply, Satellites, Telecommunication, Navigation and Oil and Gas Exploration Activity*
- 10:30 - 11:00 *Coffee and Poster Viewing*
- 11:00 - 1300 *Industries Preparedness and Protection Measures*
- 13:00 - 14:30 *Lunch*
- 14:30 - 16:00 *Predictions of Solar Storms, Warnings, Preparedness Measures and Response*
- 16:00 - 16:30 *Coffee and Poster Viewing*
- 16:30 - 18:00 *A Super Storm - What can happen and how to prepare for and handle it?*
- 19:00 - 21:00 *Reception*

Wednesday October 24, 2012

- 09:00 - 10:30 *Society's ability to withstand short and long term shut down of Critical Infrastructure*
- 10:30 - 11:00 *Coffee and Poster Viewing*
- 11:00 - 1300 *Industries and Authorities Handling Strategies and Contentious Level*
- 13:00 - 14:30 *Lunch*
- 14:30 - 15:30 *Future Expectations*
- 14:30 - 15:30 *Summing Up and Conclusions*
- 16:00 *End of Conference*

Exhibitors

One of TIEMS goals with the conference is to establish a good dialogue between researchers, industry and authorities and “close the gap between theory and practice”. We therefore welcome industry and others who like to expose their products, systems and solution within this field, to exhibit their solutions during the conference, and establish the necessary contacts to achieve practical results.

Conference Fee

The conference fee has to be paid prior to arrival at the conference. TIEMS web-site will open up for registration and payment, either by credit cards or bank transfer. The conference fee will include one year membership in TIEMS, and there will be a special “early bird” rate, regular rate and a late rate, as shown below. The conference fee includes 1 copy of the proceedings and all social events.

Conference fee depending on time of payment:

Time of Payment	Conference Fee
<i>Early Bird Rate – until 1st May 2012</i>	<i>Euro 400</i>
<i>Regular Rate – from 2nd May – 1st September 2012</i>	<i>Euro 450</i>
<i>Late Rate – After 2nd September 2012</i>	<i>Euro 500</i>
<i>Exhibition space (incl. table, chair and electricity)</i>	<i>Contact khdrager@online.no</i>

The International Emergency Management Society - TIEMS

TIEMS was founded in 1993 in Washington, USA, and is today registered as an international, independent, non-profit NGO in Belgium. TIEMS is an International Network of Users, Planners, Researchers, Industry, Managers, Response Personnel, Practitioners, Social Scientists, and other Interested Parties and individuals concerned with Emergency and Disaster Management.

TIEMS stimulates the exchange of information regarding the use of innovative methods and technologies within emergency and disaster management to improve society’s ability to avoid, mitigate, respond to, and speedily recover from natural and technological disasters. TIEMS is building a network of experts through local TIEMS Chapters all over the world, with the aim of “think globally and act locally”.

TIEMS believes in a global dialogue to learn from exchange of expert information and experience. This year TIEMS plans to arrange 13 conferences and workshops around the world. The planned locations are: Norway, Japan, Nepal, Russia, Tunisia, Philippines, Romania, Finland, Korea, China, France, BeNeLux and India. TIEMS also initiates and takes part in research & development projects which aim at developing and/or improving methods and technologies within emergency and disaster management.

TIEMS also is developing an International Education Training and Certification Program in Emergency and Disaster Management. The International Education Program comprises TIEMS Chapter Training and TIEMS QIEMD Certification. More details are found on TIEMS web-site: www.tiems.org.

The Beauty of Northern Lights



Photo: Pål Brekke

Picture Comments by the Photographer

The picture shows the Northern lights over Tromsø, Norway on 23 January 2012. The aurora is a visual manifestation on space weather and has amazed people for thousands of years.

Hotel Registration

The conference hotel will be Grand Hotel, where 100 rooms are booked for conference delegates and accompanying persons. In addition it is booked 50 rooms at Rica Hotel adjacent to Grand Hotel. The reserved hotel rooms will be available for booking at special conference rates up to the given dates below for each hotel. Beyond those dates, the conference organizer cannot guarantee availability and the special rates. The conference delegates are responsible for their own booking and payment of hotel, see registration forms in the following for both hotels.

Grand Hotel



(Availability and Special Rates available until 21st July 2012)

Room reservations made through Grand Hotel's homepage: www.grand.no

In order to get the special rate for this event: **TIEMS Conference**, log on to www.grand.no and choose from the following:

- Room reservation** (– select dates)
- choose : **“Select accounts”**

Under **“Select Accounts”**:

- Account Code : **wwoslgr3**
- Promotional Code: ***g3k** (star + g3k)

The agreed rates for this event will then appear, please continue your reservation as normal.



Rica Victoria Hotel

RICA VICTORIA HOTEL REGISTRATION

Tiems

22. – 24. October 2012

Reference #11262780

Please return this form by 10. September, 2012, to RICA VICTORIA HOTEL

Fax: 47 24 14 70 01/booking.victoria@rica.no

Name: _____

Address: _____

Tel: _____ Fax: _____ e-mail: _____

I wish to reserve for: Arrival date: _____ Departure date: _____

Please select room category;

Standard room 1 pax NOK 1285,-

Standard room 1 pax NOK 1535,-

It is also possible to make reservation for higher room categories, please contact the hotel for the best available rates.

Above rates are per room per night, including buffet breakfast, taxes and access to our wireless internet system. Reservation and rooms allocation will be default on a first-com first-served basis. Rooms are available for check-in from 3 pm on date of arrival, and departure time is noon.

Request for accommodation received 10. September 2012, will be subject to the availability at the hotel.

I guarantee my arrival with the following credit card:

Card Holder name: _____

Card type: _____ Card No: _____ Exp: _____

Signature: _____ Date: _____

Please be advised that your reservation can only be processed if the credit card details are provided. You can cancel your reservation in writing without charge 24 hours before arrival at the latest. After this date, the hotel will charge you for the first night of the reservation.

In the case of no-show the hotel will charge you for the entire stay and release the remainder of your reservation. Thank you for choosing Rica Victoria Hotel for your stay in Oslo.