

34th ESReDA Seminar and 2nd Joint ESReDA/ESRA Seminar on

Supporting technologies for advanced maintenance information management

13-14th May, 2008

The maintenance of machinery and assets is a huge cost in many activity sectors (industry, transport, aeronautics, energy, structures...) however it is a particular area where substantial savings may be made through the use of technologically advanced solutions. There is a growing request for optimization of tactical and strategic maintenance decisions, as increasing requirements in terms of productivity, reliability, availability, quality and safety appears, in addition to the extension of normal operational ranges.

On the other hand, as sources of information multiply (sensors, reliability data, RF-ID ...) and enhanced connectivity technologies facilitate information flow, there is an increasing volume of information ready to be used in benefit of improved maintenance. Given this, the burden of the maintenance activities is being focused on information rich analysis to support maintenance operation decisions.

The purpose of this seminar is then to analyse the existing and upcoming technologies feasible for decision support, with respect to process modelling and/or automation. It is of particular interest to search for technologies that facilitate and/or automate diagnosis and prognosis tasks, taking into account problems uncertainty in data sources and models, results adaptation to new conditions, and integration of different sources of information: (Statistics, Failure and reliability information based systems; Condition based information and trends; Mathematical and physical models; Human expertise). It is finally also of a high interest to include works that evaluate the cost-benefit of novel technologies with respect to current maintenance practices.

Main topics related to the seminar will be:

- **Diagnosis and health assessment**
- **Ageing, Prognosis and remaining useful life**
- **Tactical decision support**
- **Strategies and optimization**
- **Uncertainty evaluation and confidence assessment**
- **Data and information fusion**
- **Data quality analysis**
- **Cost benefit analysis**
- **Maintenance information management**
- **Industrial hazards**

Announcement and relevant information will be updated on:

www.esreda.org



Tekniker

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Fundación TEKNIKER
Hotel NH Aranzazu
Vitoria-Gasteiz 1 - 20018
San Sebastián - Spain



Seminar Dates

May 12th 2008. Monday – Fundación Tekniker - Eibar

09:00-17:00: ESReDA Project Groups meetings (open to all), under planning,
14:00-16:30: 49th ESReDA Board of Directors

May 13th 2008. Tuesday – Hotel NH Aranzazu – San Sebastian

08:30-17:30: 34th ESReDA Seminar/2nd ESReDA-ESRA Seminar (1st day)
17:45-19:00: 29th ESReDA General Assembly Meeting
20:45-23:00: Gala dinner

May 14th 2008. Wednesday – Hotel NH Aranzazu – San Sebastian

08:30-17:30: 34th ESReDA Seminar/2nd ESReDA-ESRA Seminar (2nd day)

ESReDA Project Group (PG) technical meetings are freely open to all. The final programme will include the detailed plan of PG meetings.

Seminar Fees

Seminar's fees are 300€/participant. Speakers and 3 participants per ESReDA member organisation are exempted.

Members of the ESRA association are exempted, in the same terms as ESReDA member organisations, upon explicit request and up to the limit of the available budget and at least 3 members (a first-come-first-serve basis will be applied to the requests for exemptions).

Gala Dinner

A gala dinner is organised in the night of Tuesday, May 13th. The contribution for the gala dinner is 20 €.

Accommodation

Organization has reserved a limited number of rooms in the Hotel Aranzazu where the seminar is held. Priority will be given for earlier booking.



Hotel NH Aranzazu
Vitoria-Gasteiz 1 - 20018
San Sebastian - Spain

Seminar Organisation

The seminar is jointly organised by ESReDA, ESRA and Fundación TEKNIKER

Chairman of the seminar

Henrik Kortner, (ESReDA President/DNV, Norway)
Sebastián Martorell (ESRA Vice-Chairman/UPV, Spain)

Technical program committee

Aitor Arnaiz (Fundación Tekniker, Spain)
Tim Bedford (Univ. Strathclyde, UK)
Giacomo G.M. Cojazzi, (EC, DG JRC, IPSC, Italy)
Micaela Demichela (Politecnico di Torino, Italy)
Mohamed Eid (CEA, France)
Antonio Jose Fernandez (Iberinco, Spain)
Henrik Kortner (DNV, Norway)
André Lannoy (IMdR, France)
Sebastián Martorell (Univ. Politécnica Valencia, Spain)
Jean-Remi Massé (Hispano-Suiza, France)
Lars Pettersson (Vattenfall, Sweden)
Kaisa Simola (VTT, Finland)
Antonio Sola (Iberdrola, Spain)

Organising committee

Mohamed Eid (CEA, France)
Aitor Arnaiz (Fundación Tekniker, Spain)

Local Organizing Committee

Aitor Arnaiz (Fundación Tekniker, Spain)
Oscar Revilla (Fundación Tekniker, Spain)
Javier García (Fundación Tekniker, Spain)



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European Safety, Reliability & Data Association



European Safety and Reliability Association

Registration Form

Personal Data, Seminar Registration and Hotel Booking

IMPORTANT: You always receive a confirmation by fax or e-mail, if not please, contact us (at least 3 days before the meeting)

Please note that this registration can be filled in by clicking the various fields.

To be returned before: 25/04/2008 to:

FUNDACIÓN TEKNIKER (Attention: Oscar Revilla)

Avda. Otaola, 20

20600 – EIBAR (SPAIN)

Tel. +34 943 206744

Fax +34 943 202757

e-mail: orevilla@tekniker.es

After this date hotel accommodation prices and bookings cannot be guaranteed.

TYPE OR PRINT IN BLOCK CAPITALS PLEASE

Surname:	<input type="text"/>	Gender: M	<input type="checkbox"/>	F	<input type="checkbox"/>
First Name:	<input type="text"/>				
Organisation:	<input type="text"/>				
Address:	<input type="text"/>				
City, Post code and Country:	<input type="text"/>				
Tel.:	<input type="text"/>	mobile:	<input type="text"/>		
Fax:	<input type="text"/>	e-mail:	<input type="text"/>		

- I will attend the May. 13-14 Seminar
 I will attend a WG on May. 12 (for ESREDA members)
 I will attend the BoD on May. 12 (ESREDA BoD members)

SPEAKERS (1 speaker/presentation) are exempted. ESReDA and ESRA members are also exempted (3 participants/member organisation)

Please tick as appropriate and calculate the total amount:

- I participate as a speaker (1 speaker/presentation is exempted from seminar fees)
 I participate as a ESREDA or ESRA member (exempted from seminar fees)
 ESRA ESReDA
 I pay the ESReDA/ESRA seminar fee (300 €)
 I will participate in the gala dinner (20 €/person): (20 x) =

**Total amount has to be paid by direct bank transfer to the ESReDA account:
FORTIS Bank-Deinze, Tolpoortstraat 17; B-9800 DEINZE (Belgium)
Bank: Fortis Bank-Deinze, Tolpoortstraat 17, Deinze, B-9800, Belgium, IBAN: BE69 0012 3728
1678, BIC: GEBABEBB36A**

Accommodation

Accommodation is advised at the site of the Seminar. A special room price (single room; accommodation only) IS AVAILABLE:
100 €. (Price in Euro; VAT not included)
Breakfast-Buffer price 13 € + VAT.

For more options, please consult directly with the hotel (ask for ESReDA Seminar):

NH Aranzazu Hotel

Address: Vitoria-Gasteiz, 1, 20018 San Sebastian (Spain)

E-mail: nharanzazu@nh-hotels.com

Tel.: +34.94.3219077

(or ask for more information at TEKNIKER contact person)

Please indicate this option **NO LATER** than **25.04.2008**

Please indicate if you have any restrictions with the menus (Vegetarian, Muslim, ...)

<input type="checkbox"/> Single Room	::: from	<input type="text"/>	to	<input type="text"/>	(morning) =	<input type="text"/>	night(s)	<input type="checkbox"/> Breakfast
<input type="checkbox"/> Double Room	::: from	<input type="text"/>	to	<input type="text"/>	(morning) =	<input type="text"/>	night(s)	<input type="checkbox"/> Breakfast

How To Arrive

There are several options to arrive to 'San Sebastián' ('Donostia' in basque language).

www.donostia.org

1. By Air

Airport of San Sebastian (EAS)

www.aena.es

At Fuenterrabía to Donostia / San Sebastián (distance: 20Km.)

Bus service (company: Interbús) from the airport to the centre of Donostia and a taxi service.

Airport of Biarritz (BIQ)

www.biarritz.aeroport.fr

San Sebastián (distance: 40Km.)

Upon arrival at the airport, take a taxi to the railway station of Biarritz and then take a train to Hendaye (concerning the transport from Hendaye to San Sebastián, please see 2 by Train).

Airport of Bilbao (BIO)

www.aena.es

San Sebastián (distance: 100Km.)

Bus/taxi service from the airport to the centre of the city (every 30 min).

Bus service from Bilbao from the 'Termibús' bus station in the center of Bilbao to San Sebastián every hour (Bus companies: Alsa and Pesa). Journey: about 1 hour.

Airport of Vitoria (VIT)

San Sebastián (distance: 120Km.)

Only a taxi service from the airport to the centre of the city.

From Vitoria to San Sebastián: bus service (Bus companies: Burundesa, Pesa, Continental-Auto. Bus station address: c/ Los Herrán, 50) and a railway service (Company: Renfe, Address: Plaza de la Estación), with train departures every 3 - 4 hours.

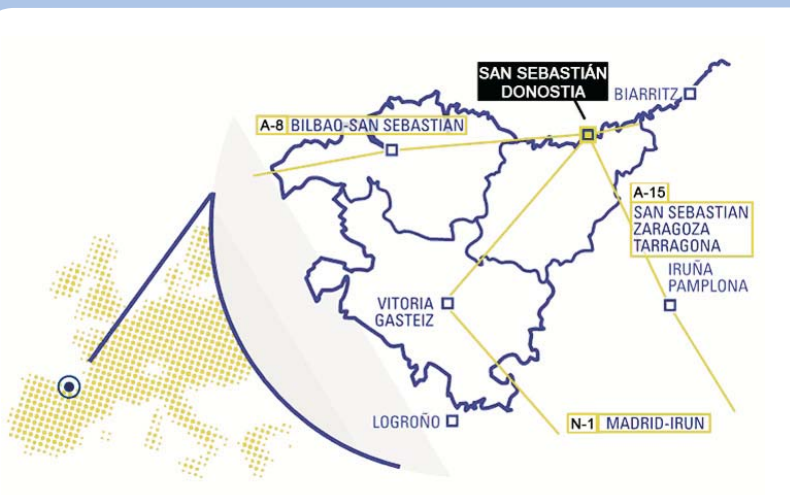
Journey: 1h. 45 min. approx.

Airport of Pamplona (PNA)

San Sebastián (distance: 110Km.)

Bus/taxi service from the airport to the centre of the city.

From Pamplona to San Sebastián: bus service.



2. By Train

Train station París - Montparnasse (TGV) San Sebastián (distance: 800Km.)

It is highly recommended to travel from Paris to Hendaye, on the frontier with Spain (22 Km. far from San Sebastián), on a TGV train (high speed train) which covers the distance in 5 hours approx. (the price is cheaper if the ticket is reserved one month in advance). Departure of the train is from Montparnasse railway station in the center of Paris. In order to get from Hendaye (France) to San Sebastián (distance: 22 Km.) take the train (short distance train known as the "Topo") of the "Eusko Tren" Company, just next to Hendaye railway station. Services to Donostia / San Sebastián every 1/2 hour. Journey: about 45 min.

3. By Car

By car to Donostia / San Sebastián

3 main highways to Donostia / San Sebastián from the province of Guipuzkoa and elsewhere in Spain:

- A-8 from Bizkaia and from France
- N-1 and A-5 from Vitoria, Burgos and Gipuzkoa
- A-15 from Pamplona

