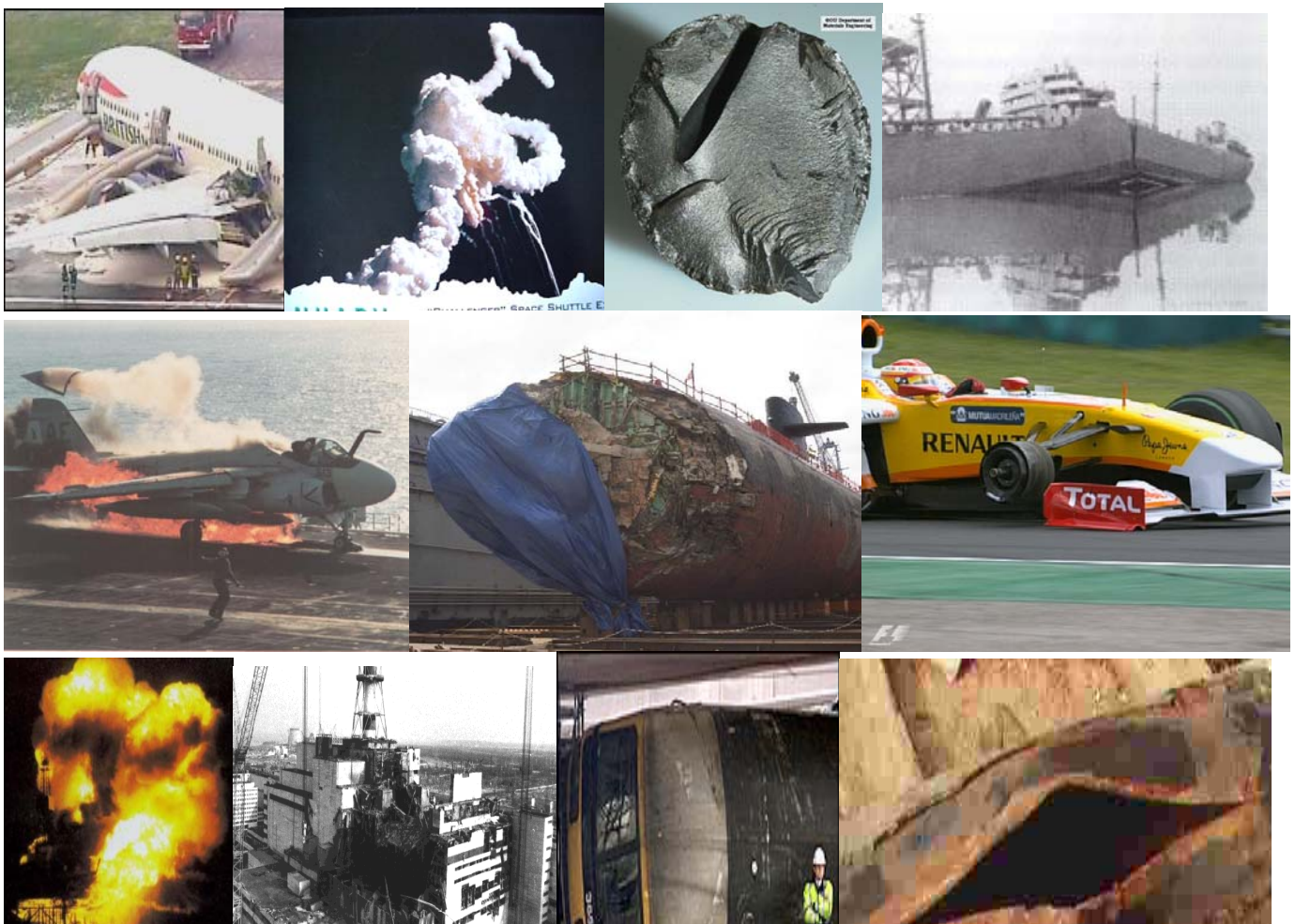


First Announcement and Call for Papers

3rd International Symposium

Understanding Machine Failures

2 – 4 March 2011, MIRCE Akademy, Woodbury Park, Exeter, United Kingdom



The MIRCE Akademy invites you to participate in this International Event. The objective of the Symposium is further expansion of scientifically based knowledge for the understanding of machine failure processes and events. This knowledge could lead to the increase of machine in-service reliability and operational effectiveness, while reducing the risk of failures and their consequences to human, natural and business world.

The three-day event will host presentation by international experts from industry, government, academia and professional institutions.

Invitation for

- Paper Presenter
- Workshop Leader
- Event Sponsor
- Participant

The deadline for the **submission of:**

- **Abstracts/Proposals is 30.10.2010**

- **Final Materials is 25. 02, 2011**

P.S. Any other suggestions?

Woodbury Park is a magnificent 500 acre complex set among rolling hills above the South West English coastline, only a few miles from Exeter, UK.

Communication between Exeter and other parts of the United Kingdom are excellent. By road, the M5 motorway links Exeter to London, the Midlands, Scotland and Wales. Regular rapid coaches run services to and from London and Heathrow Airport. By rail, a regular fast service is available to and from Exeter (St David's Station) and London (Paddington Station). By air, Exeter Airport offers regular flights to many British and Continental destinations and is situated near to Woodbury Park. Travel between Exeter and Woodbury normally requires a car or taxi.



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The MIRCE Akademy is a private and independent institution, established in 1999 by Dr J.Knezevic, to enhance, disseminate, promote and apply **Mirce Mechanics** – the scientific theory of the **Motion of functionability** (ability of being functional) through the life of a machine.

Systematic studies of functionability trajectories through the lives of machines have shown us that irrespective of how good machine may be, un-planned interruption in provisioning of function and performance will take place during its life, caused by:

- **material's physical deficiencies**
- **designed-in errors**
- **built-in errors**
- **irreversible processes that take place in a machine itself**
- **interactions with natural world**
- **interactions with human world**
- **interactions with business world**

leading to the failure events.

Scientific analysis and understanding of the mechanisms that cause transition from **positive to negative functionability state** through time, requires research undertaken under auspices of **Mirce Mechanics** to be placed within a following physical scale:

- **10⁻¹⁰ metre (Atomic System** – to deal with vacancies, fatigue, corrosion, creep, wear, etc.)
- **10⁺¹⁰ metre (Solar System** – to deal with temperature, ice, wind, humidity, sand, solar-radiation, snow, etc.).

Better understanding of failure mechanisms will result in more accurate predictions of future failures enabling engineers and managers to assess future: risk, reliability, availability, productivity, cost, revenue, performance, readiness and similar measures of effectiveness, with a **probabilistic regularity**, based on given: design solutions and in-service conditions.