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SimTecT 2010

Monday 31 May – Thursday 3 June 2010
BRISBANE CONVENTION CENTRE, BRISBANE AUSTRALIA

www.simtect.com

simulation

Improving Capability and Reducing the Cost of Ownership

> SIMULATION – IMPROVING CAPABILITY AND REDUCING THE COST OF OWNERSHIP

This year the conference is taking a slightly different direction to focus on areas where simulation users and simulation suppliers must work together more effectively to create sustainable simulation solutions for long-term projects.

Specially selected keynote addresses will take us into the future looking at population, technology and environment in 2030 and how to prepare our simulation capability for a more sophisticated audience. We will also look back and reflect on past learning, delving into the specific challenges we are currently facing around skills shortage, platform interoperability and reducing cost of ownership.

Special presentations have been designed to explore these concepts in relation to key Defence projects AIR5428, AIR9000 Phase 7, JP3028, JP2048. A parallel session focusing on the Gorgon Gas Project will be highly beneficial for our resource and construction industry delegates.

Our popular technical program of pre-conference courses, technical and applications papers, symposia, and site visits remains a key feature of the conference. The courses earn currency unit credits towards the SIAA's Professional Certification Award, and we encourage organisations to include the Conference program as part of their staff's continuing professional education process.

The **SimTecT 2010** Conference and Exhibition builds on the success of the previous fourteen SimTecTs to provide an opportunity for the simulation community to discover the latest research and product advances, and to discuss applications with developers and users.

Deanna Hutchinson
Conference Convenor



SimTecT 2010 is held under the auspices of the Simulation Industry Association of Australia (SIAA) Ltd
ABN 13 087 862 619



> CALL FOR ABSTRACTS

In 2010 we are continuing to use:

- Sectors and specialisations to allow papers with common elements to be grouped together, providing a relevant conference experience for delegates
- Audience categories of technologists or users – to assist delegates choose presentations to meet their needs.
- A posters category
- Refereed option
- Publication of all accepted abstracts in the program handbook as a valuable reference point for conference participants
- Publication of all accepted papers in the proceedings (CD, hard-copy and web-site), with an ISBN registration. This enables broader access to the papers as a valuable resource for the world-wide simulation community

Students are particularly encouraged to submit abstracts as an opportunity to share their emergent ideas and research goals with a large and well-qualified audience.

There are best paper, best student paper and body of knowledge prizes with generous travel allowances to present the papers at overseas conferences, or at the next SimTecT.

As we have somewhat fewer paper presentation slots this year, each paper's applicability to the themes of the conference will be used to determine how each proposal is shared with the conference audience - as a presentation, or poster. All accepted papers will be included in full in the proceedings and posters will be displayed prominently for the duration of the conference.

Dr Elysabeth Leigh
Papers Convenor

> THE PROGRAM, KEYNOTES AND WORKSHOPS ARE STRUCTURED TO FOCUS ON SEVEN MAIN SECTORS;

Defence

- Capability assessment and development
- Operations
- Research
- Key project case studies

Transportation

- Aerospace
- Civil Aviation
- Road
- Rail
- Maritime
- Logistics / distribution

Emergency Management

- National security
- Support to multi-agency collaboration

Resources / Infrastructure

- Mining
- Oil & gas
- Construction

Manufacturing

- Product design
- Manufacturing planning and process optimisation

Education

- Secondary, Tertiary, VET
- Social and organisational learning

Health

- Components relating to the above sectors
(note – there is also a SimTecT Health in September)

> CAPABILITY FRAMEWORK

The following are elements of the "Capability theme" which can be improved by simulation:

Personnel	All people within an organisation (full-time and casual). This input incorporates recruiting, individual training and all conditions of service and employment, including entitlements, salaries and wages, superannuation and allowances.
Organisation	Flexible functional groupings with an appropriate balance of competency, structure and command and control to accomplish their tasks. This input also includes critical external organisations that directly support the organisation's effort.
Collective Training	A defined training regime undertaken by organisations that is validated against the operational requirements for that organisations activities. The regime is to include frequency and depth of competency in skills and knowledge.
Major Systems	Equipment or systems that have a significant initial and / or on-going cost.
Supplies	Supplies needed for operations including stock holdings, provisioning lead times, serviceability and configuration status.
Facilities	Buildings, structures, property, plant, equipment, training areas, civil engineering works, through life maintenance and utilities necessary to support capabilities.
Command and Management	Written guidance such as regulations, instructions, publications, directions, to support decision making, administration and operations.

> SPECIALISATIONS

Within these sectors, papers on the following specialisations are encouraged:

Policy and Management

- Validation, verification and accreditation
- Data management
- Support management
- History of simulators
- Standards

Business Imperatives

- The financing decision: traditional contracting for buy and sustain, private financed or hybrid?
- Cost benefit analysis of simulation systems
- Overcoming the barriers
- Acquisition strategies
- Business modelling

Analysis & Experimentation

- Simulation support to acquisition
- Lifecycle support modelling

Technologies

- Development methodologies
- Implementation technologies
- Synthetic environments
- Distributed simulation

Training

- Training analysis, design, execution and evaluation
- Learning theory
- Embedded training
- Distance / distributed learning
- Team training
- Human factors
- Performance assessment
- Mission rehearsal

Operations

- Planning and decision support
- Command and control
- Joint operation

Serious Games

- Single and multi-player
- Formats, platforms and applications
- Evaluation and assessment

> ABSTRACT SUBMISSION REQUIREMENTS

Abstracts must be submitted via the website www.simtect.com by **Monday 30 November 2009** (refereed papers) and **Monday 1 February 2010** (non-refereed papers).

All accepted abstracts which have accompanying papers will be published in the Conference Program and Handbook.

> PAPER SUBMISSION REQUIREMENTS

Papers must conform to the template which is available on the website. The papers must be unclassified and – where relevant – must include appropriate copyright, company and/or government clearance. Authors will be required to identify the suggested sector, specialisation and audience of their paper in the conference. The Committee may change these to suit the content and program.

Papers previously presented or published as well as marketing papers will not be accepted.

Failure to follow the template, or the above conditions, will generally result in the paper being rejected.

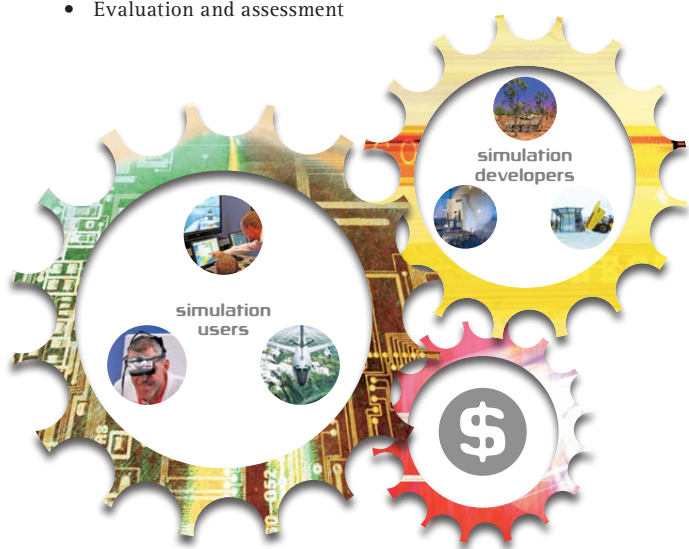
Papers must be submitted via the website www.simtect.com by **Monday 1 February 2010** (refereed papers) and **Monday 12 April 2010** (non-refereed papers).

Acceptance of the paper will be accompanied by details of speaker or poster requirements, and a copyright release form.

> KEY DATES

30 November 2009	Last date for abstracts submission (refereed papers)
7 December 2009	Abstracts accepted (refereed papers)
1 February 2010	Last date for abstract submission (non-refereed papers)
1 February 2010	Last date for refereed papers submission
15 February 2010	Non-refereed papers abstracts accepted/rejected
15 March 2010	Reviews back for refereed papers
12 April 2010	Last date for submission of all papers
12 April 2010	Last date for presenters to register for conference
20 April 2010	Draft release of program
4 May 2010	Final release of program
1-3 June 2010	SimTecT 2010 Conference

Note: Authors are requested to allow sufficient time in their schedule for having their paper undergo their organisation's necessary internal technical, export and legal reviews and also meet conference submission deadlines.



> PRESENTATION FORMATS

SimTecT 2010 offers the opportunity for conference or poster presentations.

Conference Presentation

Presenters will have a total of 20 minutes to go through their key points (in a 30 minute session), and are encouraged to make the period as interactive as possible.

Audio-visual aids will be provided for PowerPoint 2000 for Windows2003 (or equivalent). Computers with CD drives and USB ports will be provided. Presenters may use their own laptops by special arrangement. Other presentation media will only be permitted with prior arrangement, and you are encouraged to engage your audience as much as possible.

An optional PowerPoint template is available on the website: www.simtect.com.

Poster

Authors may elect, or the Review Committee may select presentations to be given in poster format.

Posters should be 1m x 1m in dimension on laminated cardboard. Advice on how to produce posters is available.

An area in the exhibition hall will be set aside for display of posters, or optionally, a computer display (using the author's equipment, and with special prior arrangement with the Conference Organisers).

The author/s will be expected to be available at their poster position at designated time(s) to present their work.

Posters provide some advantages over conference presentations:

- ability to have a static display available throughout the conference period
- able to have a presentation running continuously (subject to equipment availability)
- able to run presentations as required – one on one, or group
- high capacity for networking.

> CONFERENCE PROCEEDINGS

Accepted papers which have a registered presenter will be published in the conference proceedings. The Organising Committee is encouraging the simulation community to read and cite the papers by making them freely available on the SIAA's website (six months after the conference – or immediately for SIAA Members), and by allocating ISBN numbers to both the hardcopy and CD proceedings.

> REFEREED PAPERS

SimTecT 2010 includes a refereed papers stream. Authors will be able to submit papers for formal peer review in accordance with research council guidelines. Note that this facility is aimed at the academic community. Papers do not have to be refereed to qualify for the Best Paper Awards.

> BEST PAPER AWARDS

The Technical Committee makes two awards, Best Paper, and Best Student Paper. The recipient of the **Best Paper** Award will be eligible to attend and present at the 2010 I/ITSEC Conference in Orlando, USA with up to AUD \$5,000 contribution towards registration, travel and accommodation from the SIAA.

The **Best Student Paper** author will attend and present at SimTecT 2011, with up to AUD \$2,000 contribution towards registration, travel and accommodation from the SIAA. Details of the awards will be provided on the [SimTecT 2010](http://www.simtect.com) website.

The new **Body of Knowledge** prize will be awarded to that paper which best contributes to the development of standards, capture of best practice or contribution to the Australian Simulation community's body of knowledge. The award will provide up to \$5,000 for presentation of that paper at the SISO 2011 Spring SIW to be held in the US in April 2011.

> CONFERENCE PROGRAM

A draft of the program for [SimTecT 2010](http://www.simtect.com) will be released on the website six weeks prior to the conference. The final program will be released four weeks prior.

> AUTHOR REGISTRATION

Authors must register for the conference (by 12 April 2010), in order for them to present, and for their papers to be included in the Conference Proceedings.

> FURTHER INFORMATION

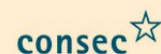
For further information about the submission of papers, please contact the Papers Convenor, Dr Elyssebeth Leigh at: simtect2010@gmail.com or visit the [SimTecT 2010](http://www.simtect.com) website: www.simtect.com

> SPONSORSHIP & EXHIBITION

For information regarding sponsorship/exhibition at [SimTecT 2010](http://www.simtect.com), please contact Margie Wallace or Barry Neame, the Conference Managers (see below).

> CONFERENCE MANAGERS

For further information about the conference contact the Conference Managers:



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