

# HYDRO 18

CONFERENCE & TRADE EXHIBITION



## The Climate for Change HYDROGRAPHY IN THE 21<sup>ST</sup> CENTURY

**Hydrography** : the key to facing the rising tide  
of climate change, knowing our oceans and  
understanding our future.

## Guidelines for Abstracts and Papers

30 October ~ 2 November 2018

Doltone House ~ Jones Bay Wharf  
Pyrmont ~ **Sydney**

PRESENTED BY:

THE AUSTRALASIAN  
HYDROGRAPHIC SOCIETY



IN CONJUNCTION WITH:

THE INTERNATIONAL FEDERATION OF HYDROGRAPHIC SOCIETIES



# HYDR018 Guidelines for Abstracts & Papers

HYDR018, with its theme of 'The Climate for Change – Hydrography in the 21st Century' will allow delegates and the hydrographic profession to consider how best to utilise the science of Hydrography in the future to adapt to climate change, sustainable resource usage and renewable energy requirements. Along with its sub-theme, 'Hydrography - the key to facing the rising tide of climate change, knowing our oceans and understanding our future', the Conference will also highlight that Hydrography is the key to facing the rising tide of climate change, knowing our oceans and understanding our future.

Hydrography is fundamental to coping with the effects of climate change, sea level rise, and the increasing pressures for sustainable resources and renewable energy through tidal and wind power. It is also vital for economic development, especially that of maritime and small island states. However, the effect of Hydrography is not fully understood or properly recognized for its direct and indirect links to global economic wellbeing and nations that rely on maritime trade, maritime protection and resource management. The recognition of the Blue Economy is emerging, and those nations that grasp the importance of this concept and its associated economic significance through hydrography will reap considerable benefits.

The science of Hydrography and its ability and potential to deal with the effects of climate change, sea level rise, its importance to the global economy (including resource sustainability, renewable energy and environmental protection) is not generally understood. This situation needs to be changed urgently noting the changing global geo-political situation. The concept of the Blue Economy must be spread within the Asia-Pacific region, especially amongst the small island states that have yet to reach their potential. The theme of the Conference and its sub-theme, seeks to create debate and discussion as to how Hydrography can be harnessed to its full potential. The Conference will bring presenters with knowledge and experience in many areas related to Hydrography, the Blue Economy, related industry and the sciences. All of these areas will be of interest to delegates,

and for them to take away the message for opportunities and challenges through Hydrography within government, private industry and academia.

With a keen eye on our changing world and noting these opportunities and challenges, the theme of HYDR018 has been selected to focus on and address emerging issues influencing us today and in the future.

# HYDR018 Call for Abstracts & Papers

The Organising Committee invites prospective participants to submit abstracts and papers, which comply with the 'Guidelines for Abstracts and Papers' for oral presentations. Selected presenters will be encouraged to prepare and provide a full conference paper - these papers will be considered for inclusion in the Conference Proceedings. **Papers are sought to reflect the conference theme and original papers will be selected on merit. Those selected for inclusion in the program will best reflect the theme and sub-themes, plus allow an overall balance to the final program.**

All presenting authors must be registrants at the Conference. Please register your interest in providing a conference paper and/or presentation with Conference Solutions as soon as possible. Abstracts complying with the guidelines must be submitted to Conference Solutions by email by Friday 29 June 2018.

A list is provided below related to the theme and possible sub-themes that authors may wish to present. All authors are expected to provide permission for their papers and presentations to be published in the HYDR018 Proceedings, which will be available in either hard or soft copy. It is not intended to offer refereeing of any paper, however papers will be checked for relevance and appropriateness. Authors will be free to submit their paper to appropriate journals for refereed publication.



# HYDR018 Conference Theme

## The Climate for Change HYDROGRAPHY IN THE 21st CENTURY

**Sub-theme : Hydrography :** the key to facing the rising tide of climate change, knowing our oceans and understanding our future.

The Conference program will attempt to reflect the science of Hydrography and its ability and potential to deal with the effects of climate change, sea level rise, its importance to the global economy (including resource sustainability, renewable energy and environmental protection) noting the changing global geo-political situation.

Some suggested subjects are shown below, which may be used by authors and presenters:

### Hydrography and Specialist Hydrographic Streams:

- | Nautical Charting
- | Coastal Zone Management
- | Industrial Offshore Surveying/Offshore Construction Surveying
- | Military Hydrography & military hydrographic requirements
- | Current trends & innovative techniques in Hydrography and associated technology
- | Remote sensing – satellite bathymetry
- | Resource surveys
- | Surveying using Unmanned Underwater Vehicles (UUVs) & Autonomous Underwater Vehicles (AUVs)
- | Surveying in remote regions
- | Contract hydrographic surveying
- | Data acquisition & management e.g. crowd-sourcing

### Climate Change & Sea Level Rise:

- | The changing imperatives – sustainable resources, renewable energy, climate change and sea level rise
- | How can Hydrography help?
- | Current trends

### Oceanography and Meteorology:

- | Climate change
- | Trends in the sciences

### Environmental Protection:

- | Impact of climate change, sea level change and the role of Hydrography
- | Managing the coastal strip
- | Marine pollution control:
  - Shipping
  - Land run-off
  - Dredging
- | Surveying for the environment

### Environmental Science and Industry:

- | Trends
- | Innovation
- | Industry perspectives

### Coastal Development:

- | Urban trends
- | Coastal infrastructure
- | Leisure
- | Sea level rise and inundation

### Government and Governance:

- | Role of international & national hydrographic and maritime agencies
- | Standards in hydrographic surveying
- | Impact of policy on industry and environment
- | Improved policy delivery
- | Trends
- | Strategic planning for Hydrography and maritime industries
- | Research commercialization & Business development

### International Intergovernmental, Non-governmental and Regional Organisations:

- | Updates on the activities of these organisations
- | Their role in supporting Hydrography and capacity building
- | The importance and effectiveness, or not, of such organisations

### Education:

- | Meeting the critical global shortfall of hydrographic surveyors
- | Emerging requirements for Hydrography, and qualified hydrographic professionals
- | Meeting international and national requirements
- | Initiatives
- | Educational and training standards

### The Blue Economy:

- | What is the 'Blue Economy'?
  - | Importance to national and regional economies
- Who is affected by the 'Blue Economy', and how?

### Maritime Transport:

- | Cruise shipping
- | General Cargo
- | Petroleum, oil and gas
- | Specialist cargo, including dangerous cargoes

### Offshore Exploration:

- | Trends
- | Update on current exploration

### Defence:

- | Military geospatial information
- | Rapid environmental assessment
- | Remote sensing of maritime areas

### Maritime Heritage:

- | Australia on the map
- | Maritime history in the Asia-Pacific region
- | New maritime history discoveries and theories
- | Maritime spatial history
- | Significant surveyors and surveys

### Tourism:

- | Eco-tourism
- | Boutique cruise shipping – General, Tropics, Arctic and Antarctic
- | Consumer requirement for pristine destinations

### Ports and Harbours:

- | Emerging trends in port and harbor infrastructure design
- | Changes in ship technology and design
- | Development of new ports and harbours



# Key Dates 2018

# Abstracts

<b>1 March</b>	Early-bird registration opens and call for abstracts and papers
<b>31 May</b>	Abstract submissions close. Abstracts reviewed and advice given to authors
<b>1 July</b>	Paper submissions open (papers may be submitted prior to this date)
<b>15 August</b>	Papers reviewed
<b>2 September</b>	Papers accepted and authors advised
<b>30 October</b>	HYDRO18 opens

The abstract should be a précis of the material to be presented and must be emailed to Conference Solutions using:

**hydro18@con-sol.com** by the due date. Abstracts must not exceed 600 words. The abstract must include concise descriptive content that explains the value of the information. The selection of the oral presentations by the Program Committee will be based on your abstract. Oral presentations will be for fifteen minutes plus five minutes question time per paper, however longer periods may be allocated to some presentations at the discretion of the Committee. Authors whose abstracts are selected for oral presentation will be required to submit their paper by the due date of 2 September 2018.

## Papers

Once your abstract has been accepted, you will need to prepare and submit your paper, which will be published in the conference proceedings to be distributed by mail or at the conference (if all papers have been submitted by the due date) in digital form (USB or CD) or hard-copy form. If your abstract is selected for presentation, remember that you will be talking to a diversely experienced, professional audience. Please ensure that you write your paper in a simple and easily understood manner.

## Length

Ideally, papers will be approximately 10 A4 pages in length, including figures, images and tables. Conference proceedings will be published on CD and in hard copy (depending upon attending delegate requirements).

Length restrictions will not be strictly enforced, but authors should bear in mind the ideal length has come from experience and bears in mind the interest and attention commitment of the reader.

## Structure

Abstracts and papers are to be structured as follows:

- 1. Paper Title.**  
The title should be succinct.
- 2. Author/s.**  
This section should include the author's name/s, their organisation/s and contact details (postal and email addresses).
- 3. Introduction.**  
This section introduces the paper outlining the history or background and importance of the topic (This may be the abstract).
- 4. Body of the text.**  
This can be structured to suit the author. As the topics vary from academic, commercial products, research projects to policy issues, we are happy to accept the structure the authors feel best represents his/her paper. You may use headings as appropriate, e.g. Materials & Methods, Results & Discussion. Figures, tables and pictures should only be included if absolutely necessary, and should be kept to a minimum. They should be numbered in sequence using numerals.
- 5. Major findings or recommendations.**  
This section is to deliver the main message or recommendations of the topic.
- 6. Conclusion.**  
The conclusion should be relatively brief, covering the main points of the paper and not introduce new ideas or concepts.
- 7. References.**  
Use a simplified, brief form, using numerals in brackets in the text in order of appearance. List references only by authors' names, year and source of publication.
8. Abstracts and papers should be saved as an **MS Word document** (.docx or other Microsoft Word compatible format), and an electronic copy be submitted by e-mail to hydro18@con-sol.com and swp@ahs.asn.au by the due dates.

## Formatting – Abstracts and Papers

Please ensure that the following formatting instructions are adhered to, as reformatting for the conference proceedings will not be possible:

- 1. Margins:**
  - a. Left and Right - 2.50 centimetres.
  - b. Top and Bottom - 2.50 centimetres.
- 2. Title.** Bold and 16 point.
- 3. Author Details.**  
Underline the name of the speaker if there is more than one author. Use superscripted numbers to identify different authors and their addresses. Font size 10.
- 4. Headings.**  
Bold and upper case for the main heading only, bold and mixed lower and upper case for subheadings. All font size 12. Indent subheadings by one tab.
- 5. Justification.** Full.
- 6. Font.** Arial, 12 point.
- 7. Spell Check Language.** Use English (Australian).
- 8. Page Numbers.** Bottom of the page, centred, font size 10.
- 9. Paragraph Layout.**  
Single line spacing. One return between paragraphs. One space should be inserted following full stops and colons.
- 10. Tables:**
  - a. When typing tables, please ensure that they are set up using the table feature (or from Excel) and not typed using the space bar or tabs.
  - b. Please ensure that tables are numbered, labelled and inserted into the text (font size 10, centre the title and table).
- 11. Figures:**
  - a. To be imported or created in the text (Excel format preferred).
  - b. To be labelled and numbered (font size 10, centre the title and figure).



# Oral Presentations

## Effective Presentation Techniques

Here are some observations and suggestions that may help you in preparing and delivering your presentation:

- | Time your presentation beforehand. Untimed presentations always go longer than anticipated and there is nothing more off-putting than having to rush at the end.
- | Deep breathing before you go to the lectern is a great way to deal with nerves. Do not worry, as everyone is nervous before public speaking. Just remember that the audience is on your side – they want you to do well!
- | Avoid reading a speech with eyes glued to the lectern. Know your material and work from outlines – trust yourself.
- | You may need to speak a bit louder than normal and use larger gestures than you might usually feel comfortable with.
- | Get your audience's attention by doing a quick survey (show of hands) or asking a rhetorical question.
- | State the program objectives at the beginning of the presentation. Tell them what you are going to tell them.
- | Make your presentation a dialogue. Use 'you' and 'we' a lot.
- | Include relevant examples and case studies.
- | Do not be afraid of pauses – they are better than lots of 'umms' and 'ahhs' and long pauses can help to emphasise words or statements.
- | Sum up at the end. Tell the audience what you have told them.
- | Unless you are an expert in your field who is used to answering questions about your work, anticipate questions and prepare responses.

## Useful tips when it comes to slides:

- | Limit copy to the equivalent of eight (8) lines of type, double-spaced (absolute maximum). This means no more than six (6) bullet points per slide.
- | Limit lines of type to a maximum of 40 characters (letters and spaces).
- | The type size should be a minimum of 32 pt.
- | Use upper and lower case – even in titles – as it is easier to read.
- | Stay with the same typeface and type colour combinations throughout the presentation. Do not use decorative type styles.
- | Contrast between type and background is critical to slide legibility.
- | When using tables and charts, limit material to five columns across.
- | When using graphics, limit curves and lines to two or, at the most, three per graph.
- | Remember, a picture tells a thousand words.
- | Leave an ample border on all four sides of the slide.

## When you have finished your slides, ask yourself:

- | Can I use fewer words?
- | Can I make any slides look less cluttered?
- | Are all my tables, graphs, flow charts and pictures clear and self-explanatory?
- | Will I have to apologise to the people at the back because they might not be able to read the detail on a slide?

**Your slides are not your script!** They are a visual aid to reinforce the points you are making – **talk to the audience and not to the slides!**

## Technical Content Enquiries

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