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Hon Secretary  
GPO Box 1817  
BRISBANE  
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# Mapping Sciences Institute, Australia



ACN 004 301 811  
ABN 53 004 301 811

6<sup>th</sup> March 2023

Thomas Schulz  
Secretary General / Secrétaire général  
*International Cartographic Association ICA*  
*Association cartographique internationale ACI*

Federal Statistical Office FSO  
Publishing and Dissemination Section PUB  
CH-2010 Neuchâtel, Espace de l'Europe 10

[secgeneral@icaci.org](mailto:secgeneral@icaci.org)

Dear ICA Secretary-General Schulz,

**NOMINATION TO FORM ICA COMMISSION ON MARINE CARTOGRAPHY AND  
APPOINT CHAIR**

To be considered by the ICA General Assembly in Cape Town on 18.08.2023,  
Australia wishes to propose the formation of an ICA Commission on Marine  
Cartography chaired by Ron Furness and with the proposed Terms of Reference  
attached with this letter. The cv of Mr. Furness is also attached with this letter. Mr  
Furness agrees to serve as Chair.

Yours faithfully

*John McCormack*

John McCormack  
National President  
Mapping Sciences Institute, Australia

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BELROSE NSW 2085  
Australia

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## Ronald Arthur FURNESS

### Career Focus

Hydrography and Nautical Cartography  
Coastal and Marine GIS  
Wide-ranging management experience in nautical charting environments to executive level  
Technical project orientation in nautical charting, including training requirements for technicians, including bringing teams to required skill levels ahead of and during the implementation of extensive new technology and methodology  
Competency in nautical charting methodology, training and specification  
Strategic focus for organisations  
Advanced organisational skills

### Experience

#### *2003-date*

IIC Technologies Inc.  
Regional Representative, SE Asia and SW Pacific  
Adviser to the IIC Academy in Vishakhapatnam and Hyderabad, India

Consulting advice to IIC Technologies. Development of training programmes in hydrographic surveying and nautical cartography

#### *1965-2003 (save for 6 months in 1980)*

##### **Australian Hydrographic Office**

Qualified in early part of career (1960-1963) at the Admiralty Hydrographic Office as Cartographical Draughtsman with Qualification.

Retired from AHO as senior civilian – Director – responsible for coordination and development across some service and all civilian areas.

Early AHO career as nautical chart compiler – compiled many Australian charts.

One of two persons chosen in 1975 to lead AHO into digital production era.

Innovative record in nautical chart production methodologies at AHO.

Led major aspects of and much of the AHO project work – e.g. AUTOCHART, Hydrographic Information System and hydrographic data base projects.

Knowledge of all aspects of Australian charting, having been responsible for much policy-setting work.

Involved with all IHO Committees from early 1980s and represented AHO on many international working groups relating to nautical charting.

Part of Australian representative team at three International Hydrographic Conferences.

Familiar with status of nautical charting in Australia, PNG and SW Pacific.

Broadly familiar with the development of the aid project to revitalize the PNG Nav aids and develop its maritime capability, including modernizing its nautical charts.

Negotiated bilateral charting arrangements between Australia and UK and to large extent with NZ and Singapore.

Main expert for Commonwealth of Australia in major litigation successfully prosecuted for alleged copyright infringement.

Project management of in-house projects

**1980**

University of Western Sydney (then Nepean CAE)  
Lecturer in Management, IT and data processing.

**1978-1982 (part-time)**

University of Technology (then NSWIT)  
Lecturer in management.  
Lecturer to final year students in strategic and corporate management

**1965**

University of Sydney  
Assistant cartographer

**1964-1965**

Hydro-Electric Commission, Tasmania  
Hydrographer (rivers) and cartography

**1960-1963**

Admiralty – United Kingdom Hydrographic Office  
Cartographic Draughtsman – basic qualifying training in nautical chart compilation.

**Education**

Bachelor of Business with Distinction and Medal (NSWIT, now University of Technology)  
B.A. (Macquarie)  
M.Ec. (Sydney)

**Personal Interests**

Rotary International (Paul Harris Fellow and Past President)  
Family; Philosophy and Reading; Mentoring

**Professional Interests**

Application of GIS to coastal issues  
Use of enterprise learning management systems  
Development of the Electronic Nautical Chart  
Nautical cartography and hydrographic surveying education

**Professional Associations**

Honorary Fellow, International Cartographic Association  
*Honorary Fellow, Mapping Sciences Institute, Australia*  
Honorary Fellow, Surveying and Spatial Sciences Institute, Australia  
*Member, Australasian Hydrographic Society*

**Honorary activities**

ICA Member (20 years) on FIG/IHO/ICA International Board for Standards of Competence for Hydrographic Surveyors and Nautical Cartographers - Chair 2020-2022.  
*Chair ICA Commission on Marine Cartography*  
Co-founder of internationally recognised CoastGIS series of conferences  
*Experience in organizing national and international hydrographic and cartographic conferences.*  
Past National President (twice) Mapping Sciences Institute, Australia  
*Active nationally and internationally in hydrographic and cartographic industries.*



Dated

1 March 2023

**Ronald Furness**

93 Ashworth Avenue  
Belrose NSW 2085  
Australia

John McCormack  
National President  
Mapping Sciences Institute Australia  
[mccormack.j@optusnet.com.au](mailto:mccormack.j@optusnet.com.au)

Dear John,

NOMINATION AS CHAIR ICA COMMISSION ON MARINE CARTOGRAPHY

Thank you for your support for the formation of an ICA Commission on Marine Cartography and for the nomination by MSIA for me to be considered as Chair of the Commission on Marine Cartography by the ICA General Assembly later this year during August.

I confirm that I am willing to serve in the position.

Best regards,



3<sup>rd</sup> March 2023

## ICA COMMISSION ON MARINE CARTOGRAPHY

### TERMS OF REFERENCE (Proposed to ICA General Assembly 2023)

- Promote the specialism of Marine Cartography within ICA and other affiliated organisations.
- As the ICA expert focus group for Marine Cartography, promote research on cartography relating to the visualisation and management of ocean data.
- Identify and recommend appropriately qualified and experienced professional cartographers to represent ICA membership on the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC).
- Promote a network of marine cartographers using media to facilitate the access by interested communities to marine cartographic knowledge.
- Foster and support local meetings and/or workshops on marine cartography and assist in engaging appropriate recognised experts.
- Liaise and coordinate with other relevant ICA Commissions and Working Groups.
- Liaise and coordinate with relevant groups from sister organisations and associations relating to the maritime environment (e.g. IHO, FIG, IGU ...).
- Encourage and promote policies of equal opportunity wherever possible within the profession and especially within the marine cartography community.



Ron Furness on behalf of MSIA  
Sydney  
3-03-2023