

## 2013 Annual Report to IUGG on JCS Activities

### Introduction

The Joint SCOR/IAPSO/IAPWS Committee on the Properties of Seawater (JCS) is the international first point of contact for issues related to the thermophysical properties of seawater. It is jointly sponsored by three scientific organizations directly concerned with the properties of seawater: the Scientific Committee on Oceanic Research, the International Association for the Physical Sciences of the Ocean, and the International Association for the Properties of Water and Steam. JCS thus acts as a permanent source of expertise to these parent organizations, and also provides a conduit for communications to other international scientific organizations like the BIPM, the WMO, and IUPAC. It may summarize progress to the community at large by issuing reports from time to time, suggests areas where gaps exist in the available knowledge, and acts to encourage and support research and standards-development activities related to seawater. It also maintain a repository of knowledge and software (via the web-site [www.teos-10.org](http://www.teos-10.org)).

JCS currently has 15 members including academic and government scientists, and industry representatives, with a 3 person executive consisting of R. Pawlowicz (Canada, Chair), R. Feistel (Germany, Vice-chair) and T. McDougall (Australia, Vice-chair).

### Last-year Activities

JCS sponsored a series of workshops at the 16<sup>th</sup> International Conference on the Properties of Water and Steam (Greenwich, UK, Sept 2-3, 2013). Workshops were held on the topics of a) pH in seawater (25 attendees), b) Salinity/Density relationships in seawater (30 attendees) and c) Relative Humidity (13 attendees). An important JCS goal is to work towards the development of standards that are traceable to the International System of Units (SI), which is controlled by Bureau International des Poids et Mesures (BIPM). Attending was R. Weilgosz, the executive director of the BIPM's Consultative Committee on the Amount of Substance (CCQM), and plans were made to continue discussions on this topic at the next CCQM meeting in April 2014.

### Future Activities

To continue work on a list of tasks developed at the Sept. 2013 workshops.

R. Pawlowicz

Chair, JCS

15/Feb/2014.