

# **Report to the Committee on Chemical Education on Division VIII Activities**

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The principal education activity of the Division of Chemical Nomenclature and Structure Representation during this biennium has been the revision of the nomenclature primer: Principles of Chemical Nomenclature which is aimed at an undergraduate audience. The Task Group is meeting just before the General Assembly to examine and discuss final drafts of the various chapters. The latest draft of the contents is appended below. In addition, the Division has collaborated with Division IV in production of a new "Purple Book", the Compendium of Macromolecular Terminology and Nomenclature, 2nd Edition.

Most activities of the Division that involve advancement of nomenclature are more relevant to those involved in research and industry rather than to an educational setting (most of the basic material covered in nomenclature courses is well-established nomenclature). The tendency for reduction or elimination of formal instruction in nomenclature in tertiary degree study has been noted, and this may be an area where some work is required. The possibility of producing very short documents on the essentials of chemical nomenclature has been raised and this may be a suitable activity for the Division to undertake for IYC 2011. This and other possibilities will be discussed at the Division Meeting.

## PRINCIPLES OF IUPAC NOMENCLATURE

### **Part 1 Basic material**

Chapter 1 Introduction  
Chapter 2 Definitions  
Chapter 3 Formulae and Stereoformulae

### **Part 2 Naming of compounds**

Chapter 4 Types of Nomenclature  
Chapter 5 Compositional and Binary-type Nomenclatures  
Chapter 6 Substitutive and Functional-class Nomenclature  
Chapter 7 Additive Nomenclature and the Nomenclature of Coordination Compounds  
Chapter 8 Nomenclature of Organometallic Compounds  
Chapter 9 Nomenclature of Polymers  
Chapter 10 Nomenclature of Boron Hydrides  
Chapter 11 Biochemical Nomenclature  
Chapter 12 Other Nomenclature Systems  
Chapter 13 Deconstructing and Constructing Names

### **Part 3 Developments in Nomenclature**

Chapter 14 International Chemical Identifiers (InChIs)  
Chapter 15 Nomenclature in the Making