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## Appendix 4 - International Scientific Associations and Services under ICSU bodies

Several of the ICSU Unions have membership from sub-discipline based international scientific associations, some of which have separate membership requirements. These are listed below.

The Australian Academy of Science pays direct subscriptions to:

- International Association of Geochemistry and Cosmochemistry (IAGC) – IAGC is also affiliated with IUGS, to which the Australian Academy of Science pays membership subscriptions;
- International Commission for Optics (ICO) – ICO is also an affiliated commission of IUPAP, to which the Australian Academy of Science pays membership subscriptions. The Australian Optical Society is also a member.

Australia has indirect formal involvement with the following international bodies, via membership to the ICSU Unions and organisations to which these bodies are affiliated:

### **Federation of Astronomical and Geophysical Data Analysis Services (FAGS)**

- International Earth Rotation and Reference system Services (IERS);
- Bureau Gravimetric International (BGI);
- International GPS Service for Geodynamics (IGS);
- International Centre for Earth Tides (ICET);
- Permanent Service for Mean Sea Level (PSMSL);
- International Service of Geomagnetic Indices (ISGI);
- Quarterly Bulletin on Solar Activity (QBSA);
- International Space Environment Service (ISES);
- World Glacier Monitoring Service (WGMS);
- Centre des Données astronomiques de Strasbourg (CDS);
- Sunspot Index Data Centre (SIDC);
- International VLBI Service for Geodesy and Astrometry (IVS).

### **International Society for Photogrammetry and Remote Sensing (ISPRS)**

- International Association for Pattern Recognition (IAPR).

### **International Union of Biochemistry and Molecular Biology (IUBMB)**

- International Federation of Clinical Chemistry and Laboratory Medicine (IFCC);
- International Society for Free Radical Research (ISFRR);
- International Society for Neurochemistry (ISN).

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## **International Union of Biological Sciences (IUBS)**

- Cell Stress Society International (CSSI);
- International Association for Aerobiology (IAA);
- International Association for Biological Oceanography (IABO);
- International Association for Comparative Physiology and Biochemistry;
- International Association for Ecology;
- International Association for Lichenology;
- International Association for Radiation Research;
- International Association for the Plant Protection Sciences (IAPPS);
- International Association of Botanic and Mycological Societies (IABMS);
- International Association of Botanic Gardens (IABG);
- International Association of Environmental Mutagen Societies;
- International Association of Human Biologists (IAHB);
- International Association of Plant Physiology (IAPP);
- International Association of Plant Taxonomy (IAPT);
- International Association of Sexual Plant Reproduction Research (IASPRR);
- International Bee Research Association (IBRA);
- International Biometric Society (IBS);
- International Bryozoology Association;
- International Commission for Invertebrate Survey;
- International Commission for Plant-Bee Relationships (ICPBR);
- International Commission for the Nomenclature of Cultivated Plants;
- International Commission of Soil Zoology;
- International Commission on Small Scale Vegetation Mapping;
- International Commission on the Taxonomy of Fungi;
- International Commission on Vegetation Science;
- International Commission on Zoological Nomenclature (ICZN);
- International Committee on Microbial Ecology;
- International Congress of Zoology (ICZ);
- International Congresses of Dipterology;
- International Congresses of Entomology;
- International Council for Medicinal and Aromatic Plants (ICMAP);
- International Ethological Committee;
- International Federation for Cell Biology (IFCB);
- International Federation of Palynological Societies;
- International Federation of Societies for Histochemistry and Cytochemistry;
- International Genetics Federation (IGF);

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- International Mycological Association (IMA);
  - International Organisation for Biological Control (IOBC);
  - International Organisation of Paleobotany;
  - International Organisation for Plant Information (IOPI);
  - International Organisation for Succulent Plant Study (IOS);
  - International Organisation of Systematic and Evolutionary Biology (IOSEB);
  - International Ornithological Committee;
  - International Palaeontological Association;
  - International Phycological Society;
  - International Polychaetological Association;
  - International Primatological Association;
  - International Seed Testing Association;
  - International Society for Animal Genetics;
  - International Society for Developmental and Comparative Immunology;
  - International Society for Horticultural Science (ISHS);
  - International Society for Mushroom Science;
  - International Society for Plant Pathology;
  - International Society for Tropical Root Crops;
  - International Society of Arachnology (ISA);
  - International Society of Biometeorology (ISB);
  - International Society of Developmental Biologists (ISDB);
  - International Society of Environmental Botanists (ISEB);
  - International Society of Invertebrate Reproduction and Development;
  - International Society of Vertebrate Morphologists;
  - International Union for the Study of Social Insects;
  - International Union of Photobiology;
  - International Union of Protozoology Societies;
  - International Union of Reticuloendothelial Societies;
  - International Working Group on Taxonomic Databases (TDWG);
  - Societas Internationalis Limnologiae;
  - Society for Invertebrate Pathology (SIP);
  - Unitas Malacologica;
  - World Congress of Herpetology;
  - World Federation for Culture Collections (WFCC);
  - World Federation of Parasitologists.

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### **International Union of Crystallography (IUCr)**

- International Centre for Diffraction Data (ICDD);
- International Organisation of Crystal Growth (IOCG).

### **International Union of Food Science and Technology (IUFoST)**

- International Dairy Federation;
- International Life Sciences Institute (ILSI);
- International Institute of Refrigeration (IIR).

### **International Union of Geodesy and Geophysics (IUGG)**

- International Association of Geodesy (IAG);
- International Association of Geomagnetism and Aeronomy (IAGA);
- International Association of Hydrological Sciences (IAHS);
- International Association of Meteorology and Atmospheric Sciences;
- International Association for the Physical Sciences of the Ocean (IAPSO);
- International Association of Seismology and Physics of the Earth's Interior (IASPEI);
- International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI).

### **International Union of Geological Sciences (IUGS)**

- Association of Exploration Geochemists;
- Association of Geoscientists for International Development;
- Association internationale pour l'étude des argiles;
- Centre International pour la Formation et les Echanges Géologiques;
- Commission for the Geological Map of the World;
- Geochemical Society;
- International Association for Engineering Geology and the Environment;
- International Association of Geochemistry and Cosmochemistry;
- International Association of Geomorphologists;
- International Association on the Genesis of Ore Deposits;
- International Association of Hydrogeologists;
- International Association for Mathematical Geology;
- International Association of Sedimentologists;
- International Federation of Palynological Societies;
- International Geoscience Education Association;
- International Mineralogical Association;
- International Palaeontological Association;
- International Permafrost Association;
- International Society for Rock Mechanics;
- International Union for Quaternary Research;
- Meteoritical Society;
- Society of Economic Geologists;

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- Society for Geology Applied to Mineral Deposits;
  - Society for Sedimentary Geology.

### **International Union of Immunological Societies (IUIS)**

- International Society of Immunopharmacology (ISIP);
- International Society of Developmental and Comparative Immunology (ISDCI);
- International Association of Allergology and Clinical Immunology (IAACI);
- International Society for Immunology of Reproduction (ISIR);
- Society for Mucosal Immunology (SMI).

### **International Union of Microbiological Societies (IUMS)**

- International Society for Human and Animal Mycology (ISHAM);
- International Society for Microbial Ecology (ISME);
- International Society for Plant Pathology (ISPP);
- International Organisation for Biotechnology and Bioengineering (IOBB).

### **International Union of Pure and Applied Chemistry (IUPAC)**

- International Association for Environmental Analytical Chemistry (IAEAC);
- International Association of Catalysis Societies;
- International Association of Chemical Thermodynamics;
- International Association of Colloid and Interface Scientists;
- International Association of Geochemistry and Cosmochemistry;
- International Carbohydrate Organisation;
- International Board on Applications of the Mössbauer Effect;
- International Committee on Imaging Science;
- International Confederation for Thermal Analysis and Calorimetry;
- International Federation of Clinical Chemistry and Laboratory Medicine;
- International Group for Correlation Analysis in Chemistry;
- International Mechanochemical Association;
- International Organisation for Biotechnology and Bioengineering;
- International Organisation for Chemical Sciences in Development (IOCD);
- International Organisation of Crystal Growth;
- International Society of Electrochemistry;
- International Society of Heterocyclic Chemistry;
- International Society of Magnetic Resonance;
- International Water Association;
- International Zeolite Association.

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### **International Union of Pure and Applied Physics (IUPAP)**

- International Commission For Optics;
- International Commission On General Relativity And Gravitation;
- International Commission for Acoustics.

### **International Union for Physical and Engineering Sciences in Medicine (IUPESM)**

- International Federation for Medical and Biological Engineering (IFMBE);
- International Organisation for Medical Physics (IOMP).

### **International Union of Pharmacology (IUPHAR)**

- Association for Ocular Pharmacology and Therapeutics (AOPT);
- Collegium Internationale Neuro-Psychopharmacologicum (CINP);
- International Society of Anesthetic Pharmacology (ISAP);
- International Society of Anti-Infective Pharmacology (ISAP);
- International Society of Ethnopharmacology (ISE);
- International Society of Immunopharmacology (ISIP);
- International Society of Regulatory Toxicology and Pharmacology (IS RTP);
- Safety Pharmacology Society (SPS);
- Serotonin Club.

### **International Union of Physiological Sciences (IUPS)**

- International Society for Pathophysiology;
- International Society of Nephrology.

### **International Union of Psychological Science (IUPsyS)**

- International Association for Cross-Cultural Psychology (IACCP);
- International Association of Applied Psychology (IAAP);
- International Council of Psychologists (ICP);
- International Neurological Society (INS);
- International Society for the Study of Behavioral Development (ISSBD);
- International Society of Comparative Psychology (ISCP).

### **International Union of Theoretical and Applied Mechanics (IUTAM)**

- International Centre for Mechanical Sciences (CISM);
- International Centre for Heat and Mass Transfer (ICHMT);
- International Committee on Rheology (ICR);
- International Association for Vehicle System Dynamics (IAVSD);
- International Society for the Interaction of Mechanics and Mathematics (ISIMM);
- International Congress on Fracture (ICF);

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- International Congress on Mechanical Behaviour of Materials (ICM);
  - International Association for Computational Mechanics (IACM);
  - International Association for Boundary Element Methods (IABEM);
  - International Society for Structural and Multidisciplinary Optimisation (ISSMO);
  - International Association for Hydromagnetic Phenomena and Applications (HYDROMAG);
  - International Institute of Acoustics and Vibration (IIAV);
  - International Commission for Acoustics (ICA);
  - International Congresses on Thermal Stresses (ICTS).

### **International Union of Toxicology (IUTOX)**

- International Neurotoxicology Association.