

**APPLICATION FOR RENEWAL OF CODATA TASK GROUP FOR
PRESENTATION TO THE 28th CODATA GENERAL ASSEMBLY,
Taipei, 1-2 November 2012**

Task Groups should endeavour to support CODATA's strategic objectives and activities where appropriate, as articulated in the CODATA Strategic Plan, 2006-12.

<http://www.codata.org/archives/2006/CODATAStrategicPlan.pdf>

The Strategic Plan is currently being updated for the 2013-18 period.

Task Groups may also wish to explore synergies with ICSU strategic priorities (<http://www.icsu.org/about-icsu/strategic-priorities>).

1. Name of Task Group

Preservation of and Access to Scientific and Technical Data in Developing Countries (PASTD).

2. Objective(s) of Task Group

- Promote a deeper understanding and capacity building of the needs of developing countries with regard to long-term preservation, archiving, and permanent access to scientific and technical (S&T) data.
- Advance the development and adoption of improved S&T data archiving procedures, technologies, standards, networks and policies, with special attention to these efforts in developing countries.
- Provide an interdisciplinary forum and mechanisms for exchanging information about S&T data archiving requirements and activities, with particular focus on the concerns and needs of developing countries. Publish and disseminate broadly the results of these efforts.

The TG will focus its efforts on the following specific actions during the next two years from 2012-2014:

- International training and showcase workshops for advancing capacity building in developing countries. The action will continue to cooperate with the Global Change Study Network in Pacific- Asia Region (APN), the Science Council of Asia (SCA), It will also develop joint action with the International Risk and Disaster Research (IRDR/ICSU) on remote sensing applications in environment in developing countries;
- Develop showcase and best practices system including digital geo museum, Chinese plant species information system, cases of global change studies, and a few cases related to the ecosystems and disaster mitigation. This action will adopt the hand in hand methodology to cooperate with the International Geographical Union (IGU), DIVERSTAS and the task group network;

- Provide consultation to decision makers on reducing digital divide. This action will be implemented within the frameworks of the Internet Governance Forum (IGF) and the Global Alliance for ICT and Development, United Nations (UN GAID).

3. Current Membership (Please give institution, area of expertise, telephone, and e-mail of each member)

Co-Chairs

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- Dr. William L. Anderson

Previous co-chair from USA, no involvement in next term

- Dr. Hélio Kuramoto

Member from France, no involvement in next term

- Dr. Lulama Makhubela

Member from South African, no involvement in next term

- Prof. Steve Rossouw

Member from South African, no involvement in next term

- Dr. Fu Xiaofeng

Member from China, no involvement in next term

- Ms. Gretchen Gano

Member from USA, no involvement in next term

- Mr. Basanta Shrestha

Member from ICMODE, Nepal, no involvement in next term

- Prof. D.R.F. Taylor

Member from Canada, no involvement in next term

Consultant:

- **Mrs. Henda van der Berg**

Consultant from South African, no involvement in next term

4. Planned Changes in Membership (Please give institution, area of expertise, telephone, and e-mail of each member; indicate if the individual has been invited to participate and agreed to serve, or if the individual has not yet been contacted. Note also that participation by scientists from around the world as members of the Task Group and in Task Group activities is strongly encouraged. Particular attention should be given to gender balance, and representation from developing countries.)

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Sub-group 1: Policy and Capacity Building Sub-group (PCBS)

Chair

- **Dr. Raed M. Sharif (Young Scientist)**

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Independent Consultant in Information Science and Technology Public Policy,
Intentional Development, and Innovation.
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Sub-group 2: Show Cases and Best Practices System Sub-group (SCBS)

Chair:

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5. Please indicate whether young scientists are going to be involved in this Task Group. If so please provide details.

Three young scientists join the task group, they are:

(1) **Dr. Raed M. Sharif**, Adjunct Professor, the Information School at Syracuse University, Independent Consultant in Information Science and Technology Public Policy, Intentional Development, and Innovation. Toronto, Canada. Raed is currently a member of the TG and the Chair of Working Group of Young Scientist of CODATA. He is also the Co-Chair of Young Scientists Group of the UN GAID e-SDDC (Global Alliance for Enhancing Access to and Application of Scientific Data in Developing Countries, UN GAID). Raed is nominated to play the lead role of the PASTD Sub-Task Group on Policy and Capacity Building for the term from 2012-2014.

(2) **Dr. Tomoko Doko**, Research Fellow of the Japan Society for the Promotion of Science and Part-time lecturer at Keio University. Dr. Doko is a new member of the TG. She is the Co-Chair of Young Scientists Group of the UN GAID e-SDDC (Global Alliance for Enhancing Access to and Application of Scientific Data in Developing Countries, UN GAID).

(3) **Dr. Xu Zheping**, Assistant to the Director of Documentation and Information Centre, Institute of Botany, Chinese Academy of Sciences. Dr Xu Zheping is a new member of the TG and will play a key role in leading the TG showcase and open knowledge environment activities based on the biodiversity data and information system of China.

6. Summary of activities since the 2010 General Assembly.

(Highlight if any article was published in the CODATA Data Science Journal since 2010)

(1) Workshop on Guidelines of OKE (Open Knowledge Environment) in the Developing Countries at the Sixth Annual Internet Governance Forum (IGF) held in Nairobi, Kenya on 27-30 September 2011

The Sixth Annual IGF Meeting was held on 27-30 September 2011 at the United Nations Office in Nairobi, Kenya (UNON). The theme of the meeting was: 'Internet as a catalyst for change: access, development, freedoms and innovation'. The TG and the Chinese Association for Science and Technology (CAST) partnered together and organized a workshop on **Guideline of OKE (Open Knowledge Environment) in the Developing**

Countries. More than 30 experts participated the workshop. The summary of the workshop was published at the IGF web: <http://www.intgovforum.org/cms/component/chronocontact/?chronoformname=Workshops2011View&wspid=62>

(2) Joint Workshop on Open Knowledge and Data Environment for Innovative Research on Poverty-Free and Ecosystem Protection in Asia from 4-6 July 2011 in Ulaanbaatar, Mongolia

The Science Council of Asia (SCA), the CODATA Task Group on Preservation of and Access to Scientific Data in Developing Countries (PASDDC/CODATA), the Working Group on Information Systems and Services of the Committee on Earth Observation Satellites (WGISS/CEOS) and the GIS and Remote Sensing Laboratory of the National University of Mongolia (NUM) jointly organized an international workshop on **Open Knowledge and Data Environment for Innovative Research on Poverty-Free and Ecosystem Protection in Asia** during July 4-6, 2011 in Ulaanbaatar, Mongolia. The objectives of the workshop were: (1) to enhance the common understanding of the principles and guidelines of OKDE for Innovation Research, Education and Society in Asia; (2) to present progress on OKDE from each of partners; and (3) to prototype joint efforts on the OKDE platform – Digital Geo-Museum Network of Asia. There were about forty participants, comprised primarily of SCA members and local researchers. More than 30 experts participated the workshop. The summary of the workshop published at CODATA Newsletter 102:

http://www.codata.org/resources/newsletters/Newsletter_102.pdf

(3) Presentations at the 1st World Data System Conference from 3-6 September 2011, Kyoto, Japan

Two members of the TG attended the 1st World Data System Conference from 3-6 September 2011 in Kyoto, Japan. Mr. **Paul Uhli**, J.D. was invited to provide a presentation on **The Legal Interoperability of Data** and Prof. **Liu Chuang** provided a presentation on **Digital Geomuseum - An Open Knowledge and Data Environment for Innovative Research, Education and Society**. Both papers will be published in the **CODATA Data Science Journal** as the WDS special issue. More information about the conference at: <http://wds-kyoto-2011.org/program.html>

(4) CODATA-IGU-GSC Joint Action - The Digital Lin Chao Geomuseum Initiative Launch

Presidents of CODATA, IGU and Geographical Society of China jointly signed the Letter of Interest on Digital Lin Chao Geomuseum on 30 October 2011 in Beijing, China. They are willing to work in joint partnership to enhance the open availability and use of public scientific data worldwide. As part of these efforts, they are interested in joint efforts to encourage the development the Digital Lin Chao Geomuseum as a not-for-profit open knowledge environment for the benefit of innovative research and education for geography and the broader society. The Initiative Launch Event was held at the Celebration Meeting of the CODATA 45th Years on. The summary of the Launch meeting was published at: <http://www.geomuseum.cn/E/newsletters/201201e.html>

7. Deliverables expected to be completed by the 2012 General Assembly. Please note any changes in deliverables from the Task Group application submitted to the 2010 General Assembly.

- (1) The summary of the workshop on Guidelines of OKE (Open Knowledge Environment) in the Developing Countries was published at the **IGF official web**:
<http://www.intgovforum.org/cms/component/chronocontact/?chronoformname=Workshops2011View&wspid=62>
- (2) The summary of the workshop on Open Knowledge and Data Environment for Innovative Research on Poverty-Free and Ecosystem Protection in Asia was published in **CODATA Newsletter 102**:
http://www.codata.org/resources/newsletters/Newsletter_102.pdf
- (3) Two papers will be published at the **CODATA Data Science Journal**: The Legal Interoperability of Data by Paul Uhlir, and An Open Knowledge and Data Environment for Innovative Research, Education and Society by Liu Chuang.
- (4) Digital Lin Chao Geomuseum System was released **online at www.geomuseum.cn** on 30 October 2011. By the time of the 2012 CODATA General Assembly, the initial products of the museum will be ready. This collection includes more than two thousands records of post stamps, covers and postcards related to the 1st International Polar Year (1882-1883), the 2nd International Polar Year (1932-1933), the International Geophysical Year (1957-1958), and the 4th International Polar Year (2007-2008). It also includes hundreds of records from the earlier years (1957-1959) of artificial satellites and hundreds of records about the UNESCO world heritages. Furthermore, it includes records of historical scholars in earth sciences, such as Xu Xiake (1587-1641) - Chinese geographical explorer, Zhang Xiangwen - Founder of Geographical Society of China, Lin Chao (1909-1991) - Pioneer of Chinese Geographer in IGU, Fridtjof Nansen (1861-1930) - Norwegian explorer, scientist and Nobel Peace Prize laureate, Roald Amundsen (1872-1928) - Norwegian polar explorer and first Antarctic expedition to reach the South Pole, Carl Weyprecht (1838-1881) – Germany scientist and pioneer of the 1st IPY, Georg von Neumayer (1826-1909) – Germany Scientist and Chair of 1st IPY, Richard E. Byrd (1888-1957) – US polar explorer and more.

8. Other organizations or programs sponsoring or participating in the Task Group and their role(s)

- Joint project between the Science Council of Asia and CODATA PASTD on open Knowledge Environment in Asia. The SCA will jointly support the project.
- The Asia Pacific Network of Global Change Studies (APN): grant project on open knowledge environment for global change studies in the AP region
- The Chinese Academy of Sciences: financial, labour and in kind support the actions of CODATA PASTD.
- The Chinese Association for Science and Technology (CAST): financial support the joint action on Open Knowledge Environment.
- The UN GAID e-SDDC: joint action on Open knowledge and data environment in developing countries
- The International Geographical Union (IGU): joint action on digital geomuseum

- Geographical Society of China, joint action and financial support for the Digital Lin Chao Geomuseum

9. Known and expected consequences/impact of the Task Group activities. Please explain how the activities will contribute to the specific aspects of CODATA's mission, initiatives/objectives

The mission and actions of the TG will focus on reducing digital divide, which is one of CODATA's priorities in its strategy plan. The TG has three main priorities: (1) open knowledge environment policy and strategy, (2) capacity building, and (3) showcases. The TG will adopt the joint action methodology in the implementation of these activities. The joint action methodology not only benefits the TG in terms of financial and in kind support from outside resources, it is also a great way to expand the impact of CODATA within the ICSU family through collaborating with, for example, IGU, WDS, as well as with international organizations such as the United Nations (UN GAID e-SDDC and IGF) and regional organization such as APN and SCA.

Besides, after two joint training workshops organized by the TG in Mongolia (2009 and 2011), the Mongolia Academy of Sciences announced that Mongolia was willing to joint CODATA as the CODATA national member during the Celebration Conference of the 45th CODATA on in October 2011 in Beijing.

10. If renewed, deliverables and activities to be completed by the 2014 General Assembly

- **Articles in the CODATA *Data Science Journal* or other refereed Journals**
<http://www.codata.org/dsj>

2-4 papers are planned to be published in the CODATA Data Science Journal

- **Data products, Web resources, tools, or other digital outputs**

The TG web site will be updated and the System on showcase and best practices of open knowledge and data environment in developing countries will be online, including the Digital Lin Chao Geomuseum, Biodiversity System of China, and showcase system of poverty reduction, public health and disaster mitigation studies in developing countries.

- **Other products or accomplishments**

Capacity building through a training workshop is planned with no less than 20 young scientists from developing countries to benefit from this action.

11. Organization and schedule of task group activities (e.g., planned subgroups, meetings, teleconferences, responsibilities of key participants or organizations, key milestones)

We propose to split the TG team into two sub-groups: (1) the Policy and Capacity Building Subgroup (PCBS) and, (2) the Showcases and Best Practices System Subgroup (SBPS).

Several actions in 2012-2013 have been fixed based on the grants and contracts.
Detailed schedule:

11.1 24-31 May 2012, Xining-Lassa, Tibet, China

Topic: Joint Workshop on Showcase and Best Practice on Glacier Lake Database Management in Himalaya

Joint Action with: APN

Participants: around 20 experts from APN, CODATA, ICSU Asia Office and Thailand, China, USA, Japan, and Italy.

11.2 September 14-16, 2012, Baku, Azerbaijan at the 7th IGF

Topic: Workshop on Open Knowledge Environment for Innovative Research, Education and Society at the 7th IGF (Internet Governance Forum)

Joint Action with: CAST (Chinese Association of Science and Technology), the Internet Society of China, and the Ministry of Science, Technology and Education of Portugal.

Participants: around 30 experts from CAST, ISC and IGF partners

11.3 October 31, 2012, Taipei, China at the CODATA Congress 2012

Topic: The task group plenary is planned to be held on 31 October 2012 in Taipei

Participants: TG members and invited experts with total participants are around 30. The meeting will focus on the summary of the TG activities during the last two years and the implementation plan for the coming two years.

11.4 March 2013, Distributed Online Discussions

Topic: contribution and checking to the TG website and showcase system

The distributed online discussions will focus on the TG website. This will take around one month for the discussions and checking the website.

Participants: all Task Group members

11.5 August 2013, Nairobi, Kenya (the date and detail arrangement will be confirmed)

Topic: International Workshop of Capacity Building of Space Data Management and Applications for Agriculture and Ecosystems in Developing Countries

Participants: around 20 persons from Africa

Note: the action plan for the last half of 2013 and the year of 2014 will be discussed at the task group plenary in October 2012 in Taipei China.

12. Funds and support received from all sources since the 2010 General Assembly

● Grants we got from 2010-2012

Contributor	Amount (USD)
Chinese Academy of Sciences (including headquarters and four institutes)	46,000
Asia Pacific Network of Global Change Studies (APN)	40,000
Science Council of Asia (SCA)	5,000
Chinese Association for Science and Technology	5,000
Geographical Society of China	32,000
Sub-total	128,000
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In kind support	
Computer infrastructure facilities and services from Chinese Academy of Sciences	5,000
Workshop support from Mongolia Academy of Sciences	1,000
Workshop support from Ministry of Industry and Information of Kenya	1,000
Sub-total	7,000
<hr/>	
Total	135,000

13. If renewed, plans for obtaining financial support from sources other than CODATA International (indicate if committed or expected)

Grants and Contracts

Expected to get Grants of USD 130,000, including those from the Chinese Academy of Sciences (including headquarters and institutes): USD 45,000, from the Chinese Association for Science and Technology (CAST): USD 10,000, from the Science Council of Asia (SCA): USD 5,000, from the Asia Pacific Network for Global Change Studies (APN): USD 40,000, and from the Geographical Society of China: USD 30,000

In kind support

We expect to get in kind supports of USD 15,000 for supporting TG web site and computer system development and maintenance, as well as the local cost for the workshops. These kinds of supports may come from the Chinese Academy of Sciences and the local organizers for the workshops.

14. Suggested referees (three). Do not include any current members of your Task Group or CODATA Executive Committee members. Please include the institution, relevant area of expertise, phone number and e-mail information of each referee.

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15. Other information or comments

Letter of Interest among CODATA, IGU and GSC signed by presidents of the three organizations on 30 October 2011 is attached.

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LETTER OF INTEREST

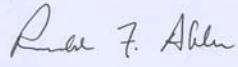
CODATA, the Committee on Data for Science and Technology, is an interdisciplinary committee of ICSU, whose mission is to “strengthen international science for the benefit of society by promoting improved scientific and technical data management and use.”

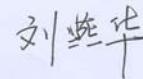
The International Geographical Union (IGU) is an Union Member of ICSU, whose mission is to promote the study of geographical problems.

The Geographical Society of China, one of the National Members of the IGU, is the largest organization dedicated to serving the community of Chinese geographers and plays the leading role in developing the Digital Lin Chao Geomuseum.

CODATA and the International Geographical Union are willing to work in joint partnership to enhance the open availability and use of public scientific data worldwide. As part of these efforts, we, the undersigned, are interested in joint efforts to encourage the development the Digital Lin Chao Geomuseum as a not-for-profit open knowledge environment for the benefit of innovative research and education for geography and the broader society.

Prof. GUO Huadong  Oct. 30, 2011
President
Committee on Data for Science and Technology (CODATA)

Dr. Ronald Abler  30 October 2011
President
International Geographical Union (IGU)

Prof. LIU Yanhua  2011.10.30
President
Geographical Society of China (GSC)