



**Toward an International Infrastructure for Biodiversity Information**

**WELCOME**



## Toward an International Infrastructure for Biodiversity Information



### Dr. Robert Robbins

<http://www.tdwg.org/fileadmin/2012conference/slides/RJR-TDWG-2012.pdf>

***How Diverse is the Biosphere?  
New Tools, Recent Discoveries,  
Huge Implications.***



## Toward an International Infrastructure for Biodiversity Information

**Jeremy Miller**

<http://www.tdwg.org/fileadmin/2012conference/slides/MillerInventories.pdf>

*Digital images and DNA barcodes improve international cooperation and informatic value of diverse tropical arthropod inventories*

**Beth Mantle**, Paul Kenneth Flemons

[http://www.tdwg.org/fileadmin/2012conference/slides/Soup presentation Mantle Flemons PartA.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Soup%20presentation%20Mantle%20Flemons%20PartA.pdf)

*Digitisation of insect soups from entomological collections*

**Paul Kenneth Flemons**, Beth Mantle

[http://www.tdwg.org/fileadmin/2012conference/slides/Soup for Crowds pf.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Soup%20for%20Crowds%20pf.pdf)

*Soup for crowds: a new source of data on insect richness, diversity and abundance*



## Toward an International Infrastructure for Biodiversity Information

**Bilassé Zongo**

*Collection and conservation of microalgae biodiversity information in Burkina Faso (West Africa)*

**Benjamin Richard Clark**, Abigail Barker, Edward Baker, William J Baker, Ruth Bone, H Charles J Godfray, Joseph Kelly, Ian J Kitching, Laurence Livermore, Simon Joseph Mayo, Sarah Phillips, Annapaola Santarsiero, Malcolm J Scoble, David A Simpson, Vincent S Smith, Soraya Villalba, Odile Weber, Paul Wilkin

<http://www.tdwg.org/fileadmin/2012conference/slides/eMonocot.pdf>

*eMonocot: an online resource for monocot plants*



## Toward an International Infrastructure for Biodiversity Information

Dag Terje Filip Endresen, [Éamonn Ó Tuama](#), David Remsen

*Knowledge Organization Systems in the GBIF work programme – recent developments*

<http://www.tdwg.org/fileadmin/2012conference/slides/GBIF-KOS-TDWG-Oct2012.pdf>

Trish Rose-Sandler, [William Ulate](#)

*The Biodiversity Heritage Library and bibliographic citations:  
towards new user services in support of a Global Names Architecture*

[http://www.tdwg.org/fileadmin/2012conference/slides/BHLibrary\\_bibliographic\\_citations.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/BHLibrary_bibliographic_citations.pdf)

[Maureen Kelly](#)

*Semantic Layers in Database Applications and Implications for Schema Mapping*

[http://www.tdwg.org/fileadmin/2012conference/slides/tdwg\\_maureen.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/tdwg_maureen.pdf)



# Toward an International Infrastructure for Biodiversity Information

## Interest Group

*Managing vocabularies (VOMAG)- the role of TDWG*

[Éamonn Ó Tuama](#), Dag Terje Filip Endresen, David Remsen

<http://www.tdwg.org/fileadmin/2012conference/slides/GBIF-TDWG-VoMaG-Oct2012.pdf>

## Task Group

*The TDWG Technical Architecture Group (TAG)*

Greg Whitbread, Stan Blum



# Toward an International Infrastructure for Biodiversity Information

**BREAKOUT**

**5th Floor, Conference Room 8**

**Working Meeting**

***Darwin Core (DwC) Tissue/DNA extension for the  
Global Genome Biodiversity Network (GGBN)***

**Paul Kenneth Flemons**



## Toward an International Infrastructure for Biodiversity Information

### SYMPOSIUM: Biodiversity database and journal interface in e-publication era

Zhi-Qiang Zhang

*Biodiversity database and journal interface in e-publication era*

<http://www.tdwg.org/fileadmin/2012conference/slides/20121023Beijing-TDWG-Zhang.pdf>

Lyubomir Penev, Teodor Georgiev, Pavel Stoev, David Roberts, Vincent Smith

*Making small data big: The Biodiversity Data Journal*

[http://www.tdwg.org/fileadmin/2012conference/slides/Biodiversity\\_Data\\_Journal.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Biodiversity_Data_Journal.pdf)

Hong Cui, Alex Dusenbery, James Macklin, Fengqiong Huang, Robert Morris,  
Heather Cole

*Semantic Annotation, Ontology Building, and Interactive Key Generation  
From Morphological Descriptions*

<http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012-Cui.pdf>





## Toward an International Infrastructure for Biodiversity Information

### SYMPOSIUM: Biodiversity database and journal interface in e-publication era

[Guido Sautter](#), David King, David R. Morse

*Towards a Universal Bibliography – The RefBank approach*

<http://www.tdwg.org/fileadmin/2012conference/slides/RefBank-TDWG-2012.pdf>

[Jeremy Miller](#)\*, Torsten Dikow, Donat Agosti, Guido Sautter, Terry Catapano, Lyubomir Penev, Zhi Qiang Zhang, Dean Pentcheff, Richard Pyle, Stan Blum, Cynthia Parr, Chris Freeland, Tom Garnett, Linda S. Ford, Burgert Muller, Leo Smith, Ginger Strader, Teodor Georgiev and Laurence Bénichou

<http://www.tdwg.org/fileadmin/2012conference/slides/2012TDWGMillerCybertaxonomy05.pdf>

*From Taxonomic Literature to Cybertaxonomic Content*

Javier Otegui, [Arturo H. Ariño](#)

*Highlighting fitness-for-use of published biodiversity data*

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012\\_presentation\\_V1-Arino.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012_presentation_V1-Arino.pdf)



## Toward an International Infrastructure for Biodiversity Information

### **SYMPOSIUM: African Biodiversity Information Symposium**

**(sponsored by JRS Biodiversity and the Belgian Cooperation for Development)**

[http://www.tdwg.org/fileadmin/2012conference/slides/cael\\_African\\_Biodiversity\\_Information\\_Symposium.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/cael_African_Biodiversity_Information_Symposium.pdf)

#### **Mwanga Mwanga Ithe**

***Activity of the Herbarium of Lwiro***

[http://www.tdwg.org/fileadmin/2012conference/slides/Ithe\\_Presentation\\_TDWG\\_2012.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Ithe_Presentation_TDWG_2012.pdf)

#### **Albert Bulimwengu Walanga**

***A Tool for the Forest in DR Congo***

[http://www.tdwg.org/fileadmin/2012conference/slides/CSB\\_UNIKIS\\_DRC\\_TDWD\\_2012.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/CSB_UNIKIS_DRC_TDWD_2012.pdf)

#### **Bhely Ronsard Angoboy**

***The data of the Biosphere reserve of Luki, DR Congo***

[http://www.tdwg.org/fileadmin/2012conference/slides/Bhely\\_Angoboy.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Bhely_Angoboy.pdf)

#### **Dr. Alex Asase**

***Developing biodiversity informatics infrastructure to support conservation of plant diversity in Ghana***

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG\\_Asase.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG_Asase.pdf)



## Toward an International Infrastructure for Biodiversity Information

**SYMPOSIUM: African Biodiversity Information Symposium  
(sponsored by JRS Biodiversity and the Belgian Cooperation for Development)**

**Lucy W. Waruingi**

***Building Biodiversity Information Networks for the compilation of  
Kenya's Natural Capital***

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012\\_LucyW\\_Biodiversity\\_Information\\_Networks\\_KENYA.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012_LucyW_Biodiversity_Information_Networks_KENYA.pdf)

**Philbert Nyinondi**

***Accessibility and Usage of Biodiversity Information in Tanzania:  
Challenges and Opportunities***

[http://www.tdwg.org/fileadmin/2012conference/slides/Nyinondi\\_TDWG\\_2012\\_Presentation.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Nyinondi_TDWG_2012_Presentation.pdf)

**Pierre Radji**

***RIHA and SEP-CEPDEC: Lessons Learned from a contribution to  
GBIF outreach in Togo***



# Toward an International Infrastructure for Biodiversity Information

**BREAKOUT**

**5th Floor, Conference Room 8**

**Working Meeting**

***Darwin Core (DwC) Tissue/DNA extension for the  
Global Genome Biodiversity Network (GGBN)***

**Paul Kenneth Flemons**



## *Toward an International Infrastructure for Biodiversity Information*

Lutz Suhrbier, Okka Tschöpe, Anton Güntsch, [Walter G. Berendsohn](#)  
*AnnoSys - A generic Annotation System for Biodiversity Data*

[http://www.tdwg.org/fileadmin/2012conference/slides/AnnoSys\\_TDWG\\_2012.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/AnnoSys_TDWG_2012.pdf)

David Lowery

*Generating Annotations for the Semantic Web From Closed-world Data*

Interest Group

*The Annotations Group*

Paul Morris, James Macklin



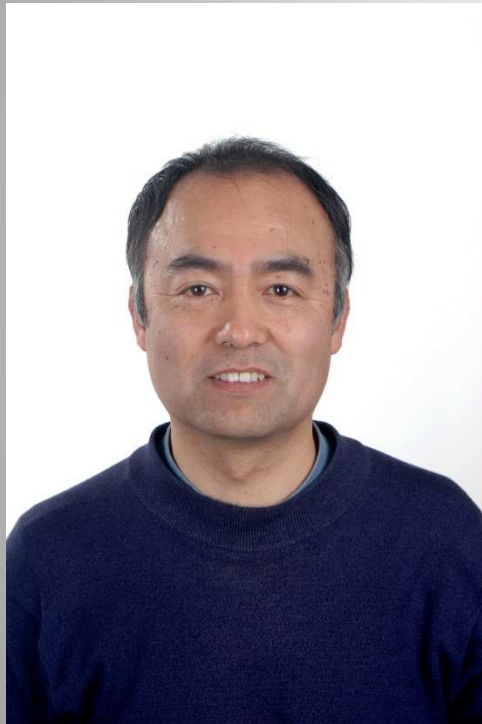
## Toward an International Infrastructure for Biodiversity Information



**Frank A. Bisby**  
**1945 - 2011**



## Toward an International Infrastructure for Biodiversity Information



**[Dr. Li-Qiang Ji](http://www.tdwg.org/fileadmin/2012conference/slides/Bisby_Core_Liqiang_JI.pdf)**

[http://www.tdwg.org/fileadmin/2012conference/slides/Bisby\\_Core\\_Liqiang\\_JI.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Bisby_Core_Liqiang_JI.pdf)

***Bisby Core - a Taxonomic Data Transfer Standard for the Multiple Taxonomy Environment.***



**Toward an International Infrastructure for Biodiversity Information**

# **POSTER SESSION**

**11:00 – 12:30**





# Toward an International Infrastructure for Biodiversity Information

## Computer Demonstrations

**Visotheary Ung, Florian Causse, Thomas Burguière, Nils Paulhe,  
Régine Vignes-Lebbe**

***Xper3: When taxonomy meets Web 2.0***

**Teodor Georgiev, Pavel Stoev, David Roberts, Vincent Smith**  
***Pensoft Writing Tool (PWT): A novel, collaborative, domain-  
specific, article authoring platform***

**Ben Scott**

***Scratchpads Demo***



## Toward an International Infrastructure for Biodiversity Information

### Workshop

#### ***Global dissemination of natural history content via Biodiversity Library Exhibition (BLE) workshop***

Jiří Frank, William Ulate

#### William Ulate.

##### ***Global Biodiversity Heritage Library.***

<http://www.tdwg.org/fileadmin/2012conference/slides/GlobalBHL-BLE-intro.pdf>

#### Fenghong Liu, Zheping Xu and Jinzhong Cui.

##### ***BHL-China : the Latest Progress***

[http://www.tdwg.org/fileadmin/2012conference/slides/BHL-China\\_10.24\\_2012-fenghong-zheping.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/BHL-China_10.24_2012-fenghong-zheping.pdf)

#### Jiří Frank.

##### ***Introduction to the BLE platform from the user perspective***

[http://www.tdwg.org/fileadmin/2012conference/slides/BLE\\_general\\_final.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/BLE_general_final.pdf)



## Toward an International Infrastructure for Biodiversity Information

**Anton Güntsch**, Cherian Mathew, Vera Hernandez Ernst, Matthias Obst,  
Sarah Bournat, Alan R Williams, Yde de Jong, Alex Hardisty

*The BioVeL Data Refinement Workflow for Occurrence Data.*

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG\\_2012\\_Guentsch\\_BioVeL.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG_2012_Guentsch_BioVeL.pdf)

**Lorna Morris**, Andreas Kohlbecker, Andreas Müller, Simon Rycroft,  
Edward Baker, Walter Berendsohn

*Interoperability between Scratchpads and the EDIT Platform for  
Cybertaxonomy via the Darwin Core Archive standard*

[http://www.tdwg.org/fileadmin/2012conference/slides/Morris\\_ViBRANTa.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Morris_ViBRANTa.pdf)

**Simon Rycroft**, Ben Scott, Dave Roberts, Vince Smith

*Scratchpads 2.0 and the pitfalls of scale*

[http://www.tdwg.org/fileadmin/2012conference/slides/2012-10-25\\_Scratchpads\\_2\\_and\\_the\\_pitfalls\\_of\\_scale.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/2012-10-25_Scratchpads_2_and_the_pitfalls_of_scale.pdf)



## Toward an International Infrastructure for Biodiversity Information

**Congtian Lin**, Huijie Qiao, Jiangning Wang, Li-qiang Ji  
*Taxonomic Tree Tool for Managing and Comparing Taxonomic Trees*

[http://www.tdwg.org/fileadmin/2012conference/slides/Congtian\\_Taxonomic\\_Tree\\_Tool\\_for\\_Managing\\_and\\_Comparing\\_Taxonomic\\_Trees.p](http://www.tdwg.org/fileadmin/2012conference/slides/Congtian_Taxonomic_Tree_Tool_for_Managing_and_Comparing_Taxonomic_Trees.p)

**Allan Koch Veiga**, Antonio Mauro Saraiva  
*A Guideline for Dealing with Data Quality*

<http://www.tdwg.org/fileadmin/2012conference/slides/AllanKochVeigaTDWG.pdf>

**Dmitry Schigel**

*Species and names: building the taxonomy and nomenclature database in Finland*

[http://www.tdwg.org/fileadmin/2012conference/slides/Schigel\\_TDWG2012.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Schigel_TDWG2012.pdf)



## Toward an International Infrastructure for Biodiversity Information

**Balasubramanian Dhandapani**, Ramesh Brahmasamudra Ranganna,  
Prabhakar Rajagopal

*Building a participatory open access biodiversity portal in India –  
India Biodiversity Portal & Western Ghats Portal.*

[http://www.tdwg.org/fileadmin/2012conference/slides/balu\\_ibp-wgp-tdwg2012.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/balu_ibp-wgp-tdwg2012.pdf)

**Zheping Xu**, Keping Ma, Haining Qin, Jinzhong Cui

*The Architecture and Techniques.*

*Biodiversity Information Service in China:*

[http://www.tdwg.org/fileadmin/2012conference/slides/xu\\_zheping\\_-\\_China\\_Biodiversity\\_Information\\_Service\\_Xu.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/xu_zheping_-_China_Biodiversity_Information_Service_Xu.pdf)



## Toward an International Infrastructure for Biodiversity Information

**Cynthia Parr**, Katja Schulz, Jennifer Hammock

*Leveraging an international infrastructure: case studies from the Encyclopedia of Life*

[http://www.tdwg.org/fileadmin/2012conference/slides/Parr\\_TDWG\\_2012.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Parr_TDWG_2012.pdf)

**Federico Méndez**, Tim Robertson

*Large-scale indexing of biodiversity data.*

<http://www.tdwg.org/fileadmin/2012conference/slides/FedericoMendez-GBIF-TDWG2012.pdf>

**Gabriele Droege**, Katharine Barker, Paul Flemons, Paul Bartels

*Towards the Global Genome Biodiversity Network (GGBN) – Infrastructure for genomic tissue and DNA sample data.*

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG\\_GGBN.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG_GGBN.pdf)



Toward an International Infrastructure for Biodiversity Information

# TDWG BUSINESS MEETING



# Toward an International Infrastructure for Biodiversity Information

**BREAKOUT**

**5th Floor, Conference Room 8**

**Interest Meeting**

***Genomic Biodiversity Working Interest  
Group (GBWG) Charter***  
**John Deck**





# Toward an International Infrastructure for Biodiversity Information

## Interest Group

### *Biodiversity Information for Cooperation and Development*

**Alex Asase, Patricia Mergen**

# Biodiversity for Cooperation and Development

- [Lucy W. Waruingi](#): Building Biodiversity Information Networks for the compilation of Kenya's Natural Capital

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012\\_LucyW\\_Biodiversity\\_Information\\_Networks\\_KENYA.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012_LucyW_Biodiversity_Information_Networks_KENYA.pdf)

- [Franck Theeten](#): Assess how the current TDWG standards and tools are adapted to the needs of cooperation and developments using experiences from the Central African Biodiversity Information Network (CABIN) project as a case study

<http://www.tdwg.org/fileadmin/2012conference/slides/CABINTools.pdf>

# Biodiversity for Cooperation and Development

- [Michael Akbaraly](#): Liaise with relevant national regional and global initiatives such as CEPDEC (The Capacity Enhancement Programme for Developing Countries of GBIF), SEP (Sud-Expert Plants), BioNet International, GBIF, relevant GBIF national nodes, CBD (Convention of Biological Diversity) and GTI (Global Taxonomic Initiative) and IPBES

[http://www.tdwg.org/fileadmin/2012conference/slides/gbif\\_poster\\_GB18\\_SEP-CEPDEC\\_en\\_lowres.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/gbif_poster_GB18_SEP-CEPDEC_en_lowres.pdf)

- [William Ulate](#): Evaluate how to work together for a coordinated project on biodiversity literature digitization towards development of digital libraries with relevant institutions such as BHL

[http://www.tdwg.org/fileadmin/2012conference/slides/BHL\\_Africa.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/BHL_Africa.pdf)

# Biodiversity for Cooperation and Development

- Garin Cael: Encourage the development of citizen sciences that will help for a better involvement of local communities and their prestigious knowledge in biodiversity information
- Patricia Mergen: Identify funding mechanisms for larger participation to TDWG conferences and related events and to organize conferences and meetings devoted entirely to the subject and discuss issue related to hosting of TDWG Annual Conference in Africa in 2014
- Charles Kahindo: To continue the discussion on IG charter during the workshop in order to submit it officially to TDWG after the conference
- AOB & Summary



## Toward an International Infrastructure for Biodiversity Information

### LIGHTNING TALKS

Wouter Addink, [Walter G. Berendsohn](#)

*The Catalogue of Life e-Infrastructure project*, <http://www.i4life.eu>

[http://www.tdwg.org/fileadmin/2012conference/slides/2012-10-26-Beijing-i4Life\\_presentation.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/2012-10-26-Beijing-i4Life_presentation.pdf)

[Falko Glöckler](#), Jana Hoffmann, Wolfgang Kiessling, Martin Pluta  
*GeoCAsE, OpenUp! and the ABCD-EFG schema –  
Mobilizing paleobiological collection data*

[http://www.tdwg.org/fileadmin/2012conference/slides/Gloeckler\\_GeoCAsE\\_EFG\\_final.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Gloeckler_GeoCAsE_EFG_final.pdf)

[Jana Hoffmann](#), Jiří Frank

*Opening Up paleontological multimedia data for the public*

[http://www.tdwg.org/fileadmin/2012conference/slides/OpenUp\\_EFG\\_Hoffmann\\_TDWG.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/OpenUp_EFG_Hoffmann_TDWG.pdf)

[James Alexander Macklin](#), Hong Cui, Bertram Ludaescher  
*Announcing ETC: Exploring Taxon Concepts through Analyzing  
Fine-Grained Semantic Markup of Descriptive Literature*

[http://www.tdwg.org/fileadmin/2012conference/slides/Macklin\\_TDWG\\_2012.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Macklin_TDWG_2012.pdf)



## Toward an International Infrastructure for Biodiversity Information

### LIGHTNING TALKS

#### [Falko Glöckler](#)

*An Online Metadata Resource of Vegetation Databases:  
The Global Index of Vegetation-Plot Databases (GIVD)*

[http://www.tdwg.org/fileadmin/2012conference/slides/Gloeckler\\_GIVD\\_final.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/Gloeckler_GIVD_final.pdf)

[William Ulate](#), Trish Rose-Sandler, Gaurav Vaidya, Robert Guralnick  
*The Art of Life Schema: describing and providing access to  
natural history illustrations from the Biodiversity Heritage Library (BHL)*

<http://www.tdwg.org/fileadmin/2012conference/slides/TDWGLightningTalkArtOfLife.pdf>

#### [Hanna Koivula](#)

*Managing Biodiversity Data in Finland*

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012\\_Koivula.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012_Koivula.pdf)



## Toward an International Infrastructure for Biodiversity Information

### INTEREST AND TASK GROUP REPORTS

- Vocabulary Management Task Group (VoMaG)
- [Global Genome Biodiversity Network Interest Group \(GGBN\)](#)

[http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012\\_GGBNworkingsession.pdf](http://www.tdwg.org/fileadmin/2012conference/slides/TDWG2012_GGBNworkingsession.pdf)

- [Darwin Core \(DwC\) Tissue/DNA extension for GGBN](#)

<http://www.tdwg.org/fileadmin/2012conference/slides/GBWGBreakoutGroup.pdf>

- TDWG Technical Architecture Group (TAG)
- Annotations Interest Group
- Biodiversity Information for Cooperation and Development

# TDWG 2013

## Patrizia Paolacci

[http://www.tdww.org/fileadmin/2012conference/slides/Presentazione\\_TDWW\\_ok.pdf](http://www.tdww.org/fileadmin/2012conference/slides/Presentazione_TDWW_ok.pdf)



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Special thanks to...

## *Local Organizing Committee*

*Biodiversity Committee, CAS*

*Prof. Keping Ma - Chair*

*Dr. Liqiang Ji*

*Yinan Liu – Conference Manager*

*Maofang Luo*

*Hao Huang*

*Xiaoye Li*

*Shengnan An*

*Meng Jiang*

*He Wan*