

TDWG - Biodiversity Information Standards



TDWG 2014

Biodiversity
Information
Standards



**Jönköping
Sweden**

**26 - 31 October 2014
ELMIA CONGRESS CENTRE
Jönköping, Sweden**

Twitter: #TDWG14

Friday Oct. 24		Swedish Museum of Natural History, Stockholm				
		Wickmanrummet	Styrelserummet	Rum 525		
		AM Break (Coffee/Tea)				
	11.00-12.30	M02 DINA Consortium meeting				
		Lunch at Restaurant Fossilen				
	14.00-15.30	M02 contd. DINA Consortium meeting				
		PM Break (Coffee/Tea)				
16.00-18.00	M02 contd. DINA Consortium meeting					
Evening, free time						
Saturday Oct. 25		Swedish Museum of Natural History, Stockholm				
		Wickmanrummet	Styrelserummet	Rum 525		
	9.00-10.30	M03 Biocollections identifiers workshop	M01 TDWG Exec. Comm. Meeting			
		AM Break (Coffee/Tea)				
	11.00-12.30	M03 contd. Biocollections identifiers workshop	M01 contd. TDWG Exec. Comm. Meeting			
		Lunch at Restaurant Fossilen				
	14.00-15.30	M03 contd. Biocollections identifiers workshop	M01 contd. TDWG Exec. Comm. Meeting			
	PM Break (Coffee/Tea)					
16.00-18.00	M03 contd. Biocollections identifiers workshop	M01 contd. TDWG Exec. Comm. Meeting				
Evening, free time						
Sunday Oct. 26		Swedish Museum of Natural History, Stockholm				
		Wickmanrummet	Styrelserummet	Rum 525		
	9.00-10.30	M03 contd. Biocollections identifiers workshop				
		AM Break (Coffee/Tea)				
	11.00-12.30	M03 contd. Biocollections identifiers workshop				
		Lunch at Restaurant Fossilen				
	14.00-15.30	M03 contd. Biocollections identifiers workshop				
	PM Break (Coffee/Tea)					
14.00-20.00	Registration & Put up Posters 14.00 - 20.00 Elmia Congress Centre, Jönköping					
20.00-22.00	Welcome Reception - 20.00 - 22.00 - @Scandic Elmia, Jönköping					

		Elmia Congress Centre, Jönköping							
		Rydberg Hall	Rum 10	Rum 11	Rum 12	Rum 17			
Monday Oct. 27	08.30-10.30							TDWG Exec. Prep.	
		09.00	General information						
		09.15	Chair's address						
		09.30	Plenary						
		09.45							
		10.00							
		10.15							
	10.30-11.00	AM Break (Coffee/Tea) in foyer (incl. Posters)							
	11:00-12.30	11.00	S05 1 Access to Digitisation on Tools and Methods	11.00	S04 Names-based Architecture for Linking Biodiversity Data	11.00	Contrib papers 1 Citizen Science & Crowdsourcing		<i>TDWG Exec. Comm. ad-hoc meetings</i>
		11.15		11.15					
		11.30		11.30					
		11.45		11.45					
		12.00		12.00					
		12.15		12.15					
	12.30-14.00	Lunch at Elmia Congress Centre							
	14.00-15.30	14.00	S05 2 Access to Digitisation Tools and Methods	14.00	IG/TG 01 Biodiversity Informatics Curriculum/ Teaching	14.00	W04 Darwin Core 1 Tutorial and workshop		<i>TDWG Exec. Comm. ad-hoc meetings</i>
		14.15		14.15					
14.30		14.30							
14.45		14.45							
15.00		15.00							
15.15		15.15							
15.30-16.00	PM Break (Coffee/Tea) in foyer (incl. Posters)								
16.00-17.30	16.00	S05 3 Access to Digitisation Tools and Methods	16.00	W06 Newcomers Chat	16.00	W04 Darwin Core 2 Typing in Darwin Core		<i>TDWG Exec. Comm. ad-hoc meetings</i>	
	16.15		16.15						
	16.30		16.30						
	16.45		16.45						
	17.00		17.00						
	17.15		17.15						
Evening; free time									

		Elmia Congress Centre, Jönköping							
		Rydberg Hall	Rum 10	Rum 11	Rum 12	Rum 17			
Tuesday Oct. 28	08.30-10.30	8:30					TDWG Exec. Prep. Day 2		
		8:45							
		09.00	TDWG Election information						
		09.15							
		09.30							
		09.45	Keynote: Dag Endresen						
		10.00							
		10.15							
	10.30-11.00	AM Break (Coffee/Tea) in foyer (incl. Posters)							
	11.00- 12.30	Reception desk open for registration 08.30-16.00	11.00		11.00	11.00		TDWG Exec. Comm. ad-hoc meetings	
11.15			Contrib papers 2 Trait + Ecology + Conservation Informatics	11.15	Contrib papers 3 Digitizing & Capacity building	11.15	W01 Audubon Core Implementations		
11.30				11.30		IG/TG 05 Annotations IG			
11.45				11.45					
12.00				12.00					
12.15				12.15					
12.30-14.00	Lunch at Elmia Congress Centre								
14.00-15.30		14.00	S06 1 Distributed Open-Source Development Of Collection Mgmt. Systems (DINA Consortium)	14.00	S08 Expanding the Usefulness of Literature in Sustaining Biodiversity	14.00	W04 Darwin Core 3 Nomenclature	IG/TG 03 Genomic biodiversity	TDWG Exec. Comm. ad-hoc meetings
		14.15		14.15					
		14.30		14.30					
		14.45		14.45					
		15.00		15.00					
		15.15		15.15					
15.30-16.00	PM Break (Coffee/Tea) in foyer (incl. Posters)								
16.00-17.30		16.00	S06 2 Distributed Open-Source Development Of Collection Mgmt. Systems (DINA Consortium)	16.00	S01 Biodiversity Informatics Workflows and Services	16.00	W04 Darwin Core 4 Genomics & Metagenomics	IG/TG 02 Literature	TDWG Exec. Comm. ad-hoc meetings
		16.15		16.15					
		16.30		16.30					
		16.45		16.45					
		17.00		17.00					
		17.15		17.15					
Evening, free time									

		Elmia Congress Centre, Jönköping																	
		Rydberg Hall		Rum 10		Rum 11		Rum 12		Rm 17									
Wednesday Oct. 29	08.30-10.30	Reception desk open for registration 08.30-16.00										TDWG Exec. Prep. Discussion							
												09.00		09.00		09.00		W02 Effective Biodiversity Data Management Training	
		09.15		09.15		09.15													
		09.30		09.30		09.30													
		09.45		09.45		09.45													
		10.00		10.00		10.00													
	10.15		10.15		10.15														
	10.30-11.00		AM Break (Coffee/Tea) in foyer (incl. Posters)																
	11.00- 12.30	Reception desk open for registration 08.30-16.00										11.00		11.00		IG/TG06 Traits in RDF		TDWG Exec. Comm. ad-hoc meetings	
												11.15		11.15					
11.30												11.30							
11.45												11.45							
12.00												12.00							
12.15		12.15		12.15															
12.30-14.00		Lunch at Elmia Congress Centre																	
Afternoon and Evening, free time																			

		Elmia Congress Centre, Jönköping						
		Rydberg Hall	Rum 10	Rum 11	Rum 12	Rm 17		
Thursday Oct. 30	08.15-10.30	08.15					TDWG Exec. Prep. Discussion	
		8:30						
		08.45	Announcements					
		09.00	Lightning talks					
		09.15						
		09.30	Keynote: Steve Kelling					
		09.45						
		10.00						
	10.15							
	10.30-11.00	AM Break (Coffee/Tea) in foyer (incl. Posters)						
11.00- 12.30	Reception desk open for registration 08.30-14.00	11.00	S11 contd. Citizen Science in Biodiversity Monitoring	11.00	S09 Biodiversity Data Synthesis and Discovery at a Tree of Life Scale	11.00	S02 1 Biodiversity Data Quality Issues: Methods and Tools	<i>TDWG Exec. Comm. ad-hoc meetings</i>
		11.15		11.15		11.15		
		11.30		11.30		11.30		
		11.45		11.45		11.45		
		12.00		12.00		12.00		
		12.15		12.15		12.15		
12.30-14.00	Lunch at Elmia Congress Centre							
14.00-15.30		14.00	S11 contd. Citizen Science in Biodiversity Monitoring	14.00	W03 1 Software Solutions for Data Management	14.00	S02 2 Biodiversity Data Quality Issues: Methods and Tools	<i>TDWG Exec. Comm. ad-hoc meetings</i>
		14.15		14.15		14.15		
		14.30		14.30		14.30		
		14.45		14.45		14.45	IG/TG07 Data Quality Interest Group	
		15.00		15.00		15.00		
		15.15		15.15		15.15		
15.30-16.00	PM Break (Coffee/Tea) in foyer (incl. Posters)							
16.00-17.30		16.00	W05 Building Biodiversity Information Standards and Capacity for Citizen Science	16.00	W03 2 Software Solutions for Data Management	16.00	IG/TG04 Conveners meet with Exec	<i>TDWG Exec. Comm. ad-hoc meetings</i>
		16.15		16.15		16.15		
		16.30		16.30		16.30		
		16.45		16.45		16.45		
		17.00		17.00		17.00		
		17.15		17.15		17.15		
Evening (19.00-22.00), Banquet at The Hall of Mirrors, Stora Hotellet								

		Elmia Congress Centre, Jönköping					
		Rydberg Hall	Rum 10	Rum 11	Rum 12	Rum 17	
Friday Oct. 31	08.30-10.30	08.30	TDWG Business meeting				
		08.45					
		09.00					
		09.15					
		09.30	Reports from Interest & Task Groups				
		09.45					
		10.00					
		10.15					
	10.30-11.00	10.30	AM Break (Coffee/Tea) in foyer				
	11.00- 12.30	11.00	Election results				
		11.15	Preview of TDWG 2015				
		11.30					
		11.45					
12.00		Summary; Closing session					
12.15							
12.30-14.00	Lunch at Restaurant Elmia Congress Centre						

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TDWG 2014 Schedule by Date, Time & Room

Friday 24 October

DINA Consortium Meeting 11.00 AM – 6.00 PM
SWEDISH MUSEUM OF NATURAL HISTORY, STOCKHOLM, **WICKMANRUMMET**

Saturday 25 October

Biological Collections Identifiers Workshop 9.00 AM – 6.00 PM
SWEDISH MUSEUM OF NATURAL HISTORY, STOCKHOLM, **WICKMANRUMMET**

TDWG Executives Meeting 9.00 AM – 6.00 PM
SWEDISH MUSEUM OF NATURAL HISTORY, STOCKHOLM, **STYRELSERUMMET**

Sunday 26 October

Biological Collections Identifiers Workshop cont'd 9.00 AM – 3.00 PM
SWEDISH MUSEUM OF NATURAL HISTORY, STOCKHOLM, **WICKMANRUMMET**

Registration 2.00 PM – 8.00 PM
ELMIA CONGRESS CENTRE, JÖNKÖPING, **FOYER**

Set up posters 2.00 PM – 8.00 PM
ELMIA CONGRESS CENTRE, JÖNKÖPING, **FOYER**

Welcome Reception 8.00 PM – 10.00 PM
SCANDIC ELMIA, JÖNKÖPING
The reception will be hosted by Jönköping municipality.
Welcome address by Lars-Evert Sahlin, Mayor, Jönköping.

Monday 27 October

RYDBERGSALEN

- 9.00 AM – 9.15 AM** Opening Ceremony and Plenary (General Information)
9.15 AM – 9.30 AM Chair's Welcome and Address
9.30 AM – 10.00 AM Keynote Presentation *Arturo H. Ariño* 729. *Shades of Grey: Yet Another role for BIS-TDWG*
10.00 AM – 10.15 AM *Donat Agosti* 715. *The Bouchot Declaration for Open Biodiversity Knowledge Management.*
10.15 AM – 10.30 AM *Patricia Mergen, Larissa Smirnova, Jiri Frank* 629. *Need for Controlled Vocabularies on Intellectual Property Right Statements?*

10.30 AM – 11.00 AM Break (Coffee & Posters in **Foyer at Elmia CC**)

11.00 AM – 12.30 PM SYMPOSIUM S05:1 **ACCESS TO DIGITISATION TOOLS AND METHODS – RYDBERGSALEN**

Organizers: Elspeth Haston, Deb Paul, Vince Smith

- 11.00 AM – 11.10 AM *Elspeth M Haston, Robert Cubey* 668. *Discovery and access to digitisation tools and methods*
11.10 AM – 11.30 AM *Alexander Kroupa, Falko Glöckler, Bernhard Schurian, Felix Maier, Stefan Schmidt, Gregor Hagedorn, Christoph Häuser* 686 *The Open Drawer Project - Providing free access to high resolution images of entomological collection drawers*
11.30 AM – 11.50 AM *Agnes Kirchhoff, Walter G. Berendsohn, Ulrich Bügel, Fernando Chaves, Cailin Guan, Markus Lindhorst, Dominik Röpert, Eduard Santamaria, Karl-Heinz Steinke, Hangyan Zheng* 584. *StanDAP-Herb develops a standard process for extracting metadata from digitised herbarium specimens*
11.50 AM – 12.10 PM *Pieter Holtzhausen, Stéfan van der Walt, Alice Heaton, Laurence Livermore, Vladimir Blagoderov, Ben Price, Lawrence Hudson, Vincent Smith* 627. *Moving beyond the box: automating the digitisation of insect collections*
12.10 PM – 12.30 PM *Martin Pluta, Falko Glöckler, Alexander Kroupa, Bernhard Schurian* 693. *ZooSphere - Development of a software for automated spheric image capturing and interactive 3D visualization of biological collection objects*

11.00 AM – 12.30 PM SYMPOSIUM S04 NAMES-BASED ARCHITECTURE FOR LINKING BIODIVERSITY DATA - RUM 10

Organizer: David Patterson

- 11.00 AM – 11.15 AM *David Patterson* 616. Towards a names-based component of the infrastructure for biodiversity sciences: status and next steps
- 11.15 AM – 11.30 AM *Christina Flann* 657. Connecting the taxonomic community and the names infrastructure community
- 11.30 AM – 11.45 AM *Florian Tobias Wetzel, Yde de Jong, Falko Glöckler, Günther Korb, Anton Güntsch, Andreas Kohlbecker, Andreas Müller, Christoph Häuser, Gregor Hagedorn* 664. Fauna Europaea – future perspectives
- 11.45 AM – 12.00 PM *Thomas Vattakaven, R. Prabhakar* 587. A curation interface for reconciliation of species names for India.
- 12.00 PM – 12.15 PM *Liqiang Ji* 599. Taxonomic Tree Tool - a platform for classification analysis
- 12.15 PM – 12.30 PM *Dimitris Koureas, Vince Smith* 724. Identifying funding and collaboration opportunities to support the global names e-infrastructure

11.00 AM – 12.30 PM CONTRIBUTED PAPERS C01 CITIZEN SCIENCE AND CROWD SOURCING - RUM 11

Moderator: Libby Ellwood

- 11.00 AM – 11.15 AM *Libby Ellwood, Robert Bruhn, Jeremy Spinks, Greg Riccardi, Austin Mast* 642. Building the historical biodiversity baseline: Emerging iDigBio resources for onsite and online public participation in the digitization of biodiversity research specimens
- 11.15 AM – 11.30 AM *Marcia Chame, Rita Braune, Felipe Brasil, Lazaro Oliveira, Paulo Werdt, Jurandir Junior* 721. Citizen Science: an alternative for monitoring emergent diseases arising from biodiversity in Brazil
- 11.30 AM – 11.45 AM *Falko Glöckler, Daniel Zitterbart, Thomas Uher, Marco Uher, Alexander Kroupa, Gregor Hagedorn* 682. Lessons learned - The generic citizen science biodiversity data application 'anymals + plants'
- 11.45 AM – 12.00 PM *Emmanouela Panteri, Sarah Faulwetter, Christos Arvanitidis, Thanos Dailianis, George Chatzigeorgiou, Eva Chatzinikolaou, Evangelos Pafilis, Christina Pavloudi, Thomas Uher, Simon D Rycroft, Alexander Kroupa, Vincent Smith, Lyubomir Penev, Edward Baker, Jean-Pierre Feral, David Romain* 684. Crowd Sourcing Initiatives in the Mediterranean Basin
- 12.00 PM – 12.15 PM *Pierre Bonnet, Hervé Goëau, Alexis Joly, Vera Bakić, Souheil Selmi, Julien Champ, Jennifer Carré, Mathias Chouet, Aurélien Peronnet, Samuel Dufour-Kowalski, Antoine Affouard, Julien Barbe, Jean-François Molino, Nozha Boujemaa, Daniel Barthélémy* 611. PI@ntNet, a citizen science platform dedicated to plant identification and botanical monitoring
- 12.15 PM – 12.30 PM *Donat Agosti, Terry Catapano, Guido Sautter* 714. The 1 Million Treatment Goal: How to create access to taxonomic treatments

12.30 PM – 2.00 PM Lunch at **Scandic Elmia**

2.00 PM – 3.30 PM SYMPOSIUM S05:2 **ACCESS TO DIGITISATION TOOLS AND METHODS RYDBERGSALEN**

Organizers: Elspeth Haston, Deb Paul, Vince Smith

- 2.00 PM – 2.20 PM *Paul J Morris, James Hanken, David Lowery, Bertram Ludäscher, James A. Macklin, Robert A Morris, Tianhong Song, Patrick Sweeney* 697. Capturing Inventory level information about collections as a step in object to image to data workflows
- 2.20 PM – 2.40 PM *Deborah Paul, Andrea Matsunaga, Miao Chen, Jason Best, Sylvia Orli, William Ulate, Reed Beaman* 597. Data Discovery and Doer Happiness: Uses for Optical Character Recognition (OCR) Output
- 2.40 PM – 3.00 PM *Riza Batista-Navarro, Aminul Islam, William Ulate, Jennifer Hammock, Axel Soto, Sophia Ananiadou, Evangelos Milios* 588. Enriching the legacy literature with OCR corrections and text-mined semantic metadata
- 3.00 PM – 3.20 PM *Greg Riccardi, Austin Mast, Elizabeth Ellwood, Robert Bruhn, Jeremy Spinks* 632. Managing Digitization Projects with Biospex
- 3.20 PM – 3.30 PM *Elspeth M Haston, Deborah Paul, Vincent Smith* 732. Discussion: Access to Digitisation Tools and Methods (data)

2.00 PM – 3.30 PM IG/TG01 **BIODIVERSITY INFORMATICS CURRICULUM/TEACHING, RUM 11**

Organizer: Hanna Koivula

- 2.00 PM – 3.30 PM 646. Biodiversity Informatics Curriculum Interest Group

2.00 PM – 3.30 PM WORKSHOP W04:1 **DARWIN CORE WORKSHOP - RUM 11**

Organizers: James Macklin, Steve Baskauf, John Wieczorek, Hilmar Lapp, Joel Sachs

- 2.00 PM – 3.30 PM 748. Darwin Core: Overview and Future Directions

3.30 PM – 4.00 PM Break (Coffee & Posters in **Foyer at Elmia CC**)

4.00 PM – 5.30 PM SYMPOSIUM S05:3 **ACCESS TO DIGITISATION TOOLS AND METHODS - RYDBERGSALÉN**

Organizers: Elspeth Haston, Deb Paul, Vince Smith

4.00 PM – 4.20 PM *Tero Mononen, Riitta Tegelberg, Janne Karppinen, Mira Sääskilähti, Hannu Saarenmaa, Tommi Koskinen, Jyrki Muona* 617. Optical character recognition (OCR) in linking entomological labels with field notebook data

4.20 PM – 4.40 PM *Sharon Grant, Kate Webbink, Marc Lambruschi, Mike Yoshida* 636. What do you do when your Network Manager tells you there is no more space and they mean it?

4.40 PM – 5.00 PM *Evangelos Pafilis, Sune Frankild, Lucia Fanini, Sarah Faulwetter, Christina Pavloudi, Julia Schnetzer, Aikaterini Vasileiadou, Umer Ijaz, Christos Arvanitidis, Robert Stevenson, Lars Juhl Jensen* 645. ENVIRONMENTS-EOL: identification of Environment Ontology terms in text and the annotation of the Encyclopedia of Life

5.00 PM – 5.20 PM *Jiri Frank* 679. Case study of reuse of digitised content by creative industry in games: Europeana Creative

5.20 PM – 5.30 PM *Elspeth M Haston, Deborah Paul, Vincent Smith* 733. Discussion: Access to Digitisation Tools and Methods (linking and management)

4.00 PM – 5.30 PM WORKSHOP W06 **NEWCOMER'S CHAT - RUM 10**

Organizers: Cyndy Parr and others

4.00 PM – 5.30 PM 731. TDWG Newcomers Chat

4.00 PM – 5.30 PM WORKSHOP W04:2 **DARWIN CORE WORKSHOP - RUM 11**

Organizers: James Macklin, Steve Baskauf, John Wieczorek, Hilmar Lapp, Joel Sachs

4.00 PM – 5.30 PM *Session Chair: Markus Döring* 749. Typing in Darwin Core: Do we need `dwc:basisOfRecord`?

Tuesday 28 October

RYDBERGSALEN

9.00 AM – 9.30 AM TDWG Election Information

9.30 AM – 10.30 AM Keynote Presentation *Dag Endresen: 759. Searching for traits of resistance to crop diseases and pests in plant genetic resources*

10.30 AM – 11.00 AM Break (Coffee & Posters in **Foyer at Elmia CC**)

11.00 AM – 12.30 PM CONTRIBUTED PAPERS C02 **TRAIT & ECOLOGY & CONSERVATION INFORMATICS - RYDBERGSALEN**

Moderator: TBA

11.00 AM – 11.15 AM *Marie-Angélique Laporte, Ulrike Stahl, Stefan Klotz, Ingolf Kühn, Lutz Maicher, Eric Garnier, Isabelle Mougnot, Jens Kattge 673. The development of a community agreed thesaurus of plant traits*

11.15 AM – 11.30 AM *Luca Matteis, Marie-Angélique LAPORTE, Harold Duruflé, Léo Valette, Elizabeth Arnaud 690. Crop Ontology: A web tool for managing plant breeders' traits*

11.30 AM – 11.45 AM *Papy Miankeba Nsevolo, Rudy Caparros Megido, Christophe Blecker, Sabine Danthine, Paul Aman, Eric Haubruge, Taofic Alabi, Frederic Francis 615. Edible insects and food security in DR Congo*

11.45 AM – 12.00 PM *Tantely Raminosoa 619. The Use of Plants Database to Identify New Botanical Inventory Zones in Madagascar.*

12.00 PM – 12.15 PM *Tomer Gueta, Avi Bar-Massada, Yohay Carmel 613. Using GBIF data to test niche vs. neutrality theories at a continental scale, and the value of data cleaning*

12.15 PM – 12.30 PM *Alan Feest 559. Biodiversity Quality Assessment*

11.00 AM – 12.30 PM CONTRIBUTED PAPERS C03 *DIGITIZING AND CAPACITY BUILDING - RUM 10*****

Moderator: TBA

- 11.00 AM – 11.15 AM *Laurence Livermore, Alex Fell, Muhammad Nadat, Andrew Brown* 705. *Rapid Data Entry – supporting high-throughput digitisation workflows in EMu*
- 11.15 AM – 11.30 AM *Mwanga Mwanga Ithe, Wabika Dumbo, Patricia Mergen, Franck Theeten, Salvator Ntore, Steven Dessein* 726. *The present state of the digitalization in Democratic Republic of Congo: Case of the Herbarium of Lwiro*
- 11.30 AM – 11.45 AM *Prabhakar Rajagopal, D. Balasubramanian, Thomas Vattakaven, Sangay Dema* 586. *Capacity Building in Biodiversity Informatics in the Biodiversity-Rich Tropics*
- 11.45 AM – 12.00 PM *Fatima Parker-Allie* 639. *Mobilising Biodiversity Information in Support of Science and Policy in South African National Biodiversity Institute*
- 12.00 PM – 12.15 PM *Prosper Karame* 628. *“Bioinformatics-led Solutions For sustainable Natural Resources management in Rwanda (BS4NR)”*
- 12.15 PM – 12.30 PM *Dairo Escobar, Daniel Amariles, María Fernanda Gómez, Danny Vélez, Néstor Beltrán, Camila Plata, Oscar Duque, Carlos Cubillos, Karen Soacha, Juan Bello* 691. *Publishing model and data papers: A synergy between a Latin American journal and SiB Colombia*

11.00 AM – 11.45 AM WORKSHOP W01 *AUDOBON CORE IMPLEMENTATIONS - RUM 11*****

Organizers: Gabriele Dröge, Steve Baskauf, Gregor Hagedorn, Bob Morris

- 11.00 AM – 11.10 AM *Robert A Morris* 711. *An RDF representation of the TDWG Audubon Core data model for multimedia resource metadata*
- 11.10 AM – 11.25 AM *Greg Riccardi, Shiva Krishna Imminni* 631. *Audubon Core at iDigBio*
- 11.25 AM – 11.40 AM *Gabriele Droege, Peter Grobe* 722. *Implementation of Audubon Core in ABCD with proposal of new terms for audio and video facts*
- 11.40 AM – 12.00 PM *Gabriele Droege, Robert Morris* 754. *Discussion*

11.00 AM – 12.00 PM IG/TG05 *ANNOTATIONS INTEREST GROUP - RUM 12*****

Organizer: Paul J. Morris

- 11.00 AM – 12.00 PM *737. Annotations Interest Group*

12.30 PM – 2.00 PM Lunch at **Scandic Elmia**

2.00 PM – 3.30 PM SYMPOSIUM S06:1 **DISTRIBUTED OPEN-SOURCE DEVELOPMENT OF COLLECTION MANAGEMENT SYSTEMS (DINA-CONSORTIUM) - RYDBERGSALEN**

Organizers: Fredrik Ronquist, James Macklin, Gregor Hagedorn, Nikolaj Scharff, Urmas Koljalg, Elspeth Haston

- 2.00 PM – 2.10 PM *Fredrik Ronquist, Karin Karlsson* 699. Distributed open-source development in the DINA consortium
- 2.10 PM – 2.30 PM *James A Macklin, Satpal Bilkhu, Nazir El-Kayssi, Chris T Lewis* 621. Standards-based management of specimen-derived DNA sequences
- 2.30 PM – 2.50 PM *Falko Glöckler, Jana Hoffmann, Gregor Hagedorn* 650. Digital representations of the collection objects in the Museum für Naturkunde Berlin
- 2.50 PM – 3.10 PM *Julien Husson* 608. Valorization over 350 years of natural history collections: e-ReColNat a digital platform for the environment and society
- 3.10 PM – 3.30 PM *Anaïs Grand, Mohamed Berkani* 624. NoSQL and Linked Data for collection and taxonomic data

2.00 PM – 3.30 PM SYMPOSIUM S08 **EXPANDING THE USEFULNESS OF LITERATURE IN SUSTAINING BIODIVERSITY – RUM 10**

Organizers: Martin Kalfatovic, Carolyn Sheffield

- 2.00 PM – 2.15 PM *Martin Kalfatovic* 563. The Biodiversity Literature and Natural History Collections: The State of the BHL
- 2.15 PM – 2.30 PM *Carolyn Sheffield* 562. Improving discovery of biodiversity literature through integrated services
- 2.30 PM – 2.45 PM *William Ulate* 557. Unlocking biodiversity knowledge through Text Mining and Crowdsourced Tagging of Legacy Literature
- 2.45 PM – 3.00 PM *Constance Rinaldo* 566. “Making Links in the BHL: primary source material as a window to a scientist’s methods”
- 3.00 PM – 3.15 PM *Rusty Russell* 570. Botanical Specimens, Field Notes, and Biodiversity Literature: Connections and Data Mining
- 3.15 PM – 3.30 PM *Carolyn Sheffield* 752. Discussion

2.00 PM – 3.30 PM WORKSHOP W04:3 **DARWIN CORE WORKSHOP - RUM 11**

Organizers: James Macklin, Steve Baskauf, John Wieczorek, Hilmar Lapp, Joel Sachs

2.00 PM – 3.30 PM *Session Chair: Richard L. Pyle* 750. *Nomenclature in Darwin Core*

2.00 PM – 3.30 PM IG/TG03 **GENOMIC BIODIVERSITY WORKING INTEREST GROUP (GBWG) MEETING, - RUM 12**

Organizer: John Deck

2.00 PM – 3.30 PM 735. *Genomic Biodiversity Working Interest Group Meeting*

3:30 PM – 4:00 PM Break (Coffee & Posters in **Foyer at Elmia CC**)

4.00 PM – 5.30 PM SYMPOSIUM S06:2 **DISTRIBUTED OPEN-SOURCE DEVELOPMENT OF COLLECTION MANAGEMENT SYSTEMS (DINA-CONSORTIUM) - RYDBERGSALEN**

Organizers: Fredrik Ronquist, James Macklin, Gregor Hagedorn, Nikolaj Scharff, Urmas Koljalg, Elspeth Haston

4.00 PM – 4.20 PM *Markus Skyttner, Ingimar Erlingsson, Ida Li, Karin Karlsson, Stefan Daume, Fredrik Ronquist* 669. *The DINA Web API*

4.20 PM – 4.40 PM *Karin Karlsson* 610. *Demonstration of a DINA compliant MediaServer*

4.40 PM – 5.30 PM *Fredrik Ronquist* 761. *Discussion for S06 DINA Consortium*

4.00 PM – 5.30 PM SYMPOSIUM S01 *BIODIVERSITY INFORMATICS WORKFLOWS AND SERVICES* – RUM 10

Organizers: James Macklin, Anton Güntsch, Paul Morris, Bertram Ludäscher

- 4.00 PM – 4.02 PM *James Alexander Macklin 760. Introduction to S01 Biodiversity Informatics workflows and services*
- 4.02 PM – 4.15 PM *Matthias Obst 574. BioVeL - Approach and outcome of the Biodiversity Virtual e-Laboratory project*
- 4.15 PM – 4.28 PM *Andreas Müller, Niall Beard, Carole Goble, Anton Güntsch, Alexandra Nenadic 605. Biodiversity needs Web Service registration system*
- 4.28 PM – 4.41 PM *Christian Authmann, Christian Beilschmidt, Johannes Dröner, Michael Mattig, Bernhard Seeger 674. Analytical Workflows for Large Data*
- 4.41 PM – 4.54 PM *Bertram Ludäscher, James Hanken, David Lowery, James Macklin, Paul J Morris, Robert Morris, Tianhong Song 700. Workflow Support for Continuous Data Quality Control in a FilteredPush Network*
- 4.54 PM – 5.07 PM *Luiz Gadelha, Guilherme Gall, Andrea Sanchez-Tapia, Marinez Ferreira de Siqueira, Jorge Velásquez, Daniel Lopez 644. Scalable and Provenance-Enabled Scientific Workflows for Species Distribution Modeling*
- 5.07 PM – 5.20 PM *Christian Gendreau, Allan Koch Veiga, David P. Shorthouse, Antonio Mauro Saraiva 609. Biodiversity Data Quality tailored for Scientific Workflows*
- 5.20 PM – 5.30 PM *James A Macklin 727. Summary and Discussion*

4.00 PM – 5.30 PM WORKSHOP W04:4 *DARWIN CORE WORKSHOP* - RUM 11

Organizers: James Macklin, Steve Baskauf, John Wieczorek, Hilmar Lapp, Joel Sachs

- 4.00 PM – 5.30 PM *Session Chair: Robert Robbins 751. Genomics and Metagenomics: What is the role of the Darwin Core?*

4.00 PM – 5.30 PM IG/TG02 *LITERATURE INTEREST GROUP* - RUM 12

Organizer: Martin Kalfatovic

- 4.00 PM – 5.30 PM *734. Literature Interest Group Meeting*

Wednesday 29 October

9.00 AM – 10.30 AM CONTRIBUTED PAPERS C04 **EMERGING PLATFORMS - RYDBERGSALEN**

Moderator: TBA

- 9.00 AM – 9.15 AM *Dimitrios Koureas, Simon Rycroft, Vince Smith* 663. Linking data, services and communities using Virtual Research Environments (VRE); The Scratchpads example
- 9.15 AM – 9.30 AM *Christian Köhler, Peter Grobe, Maik Röder, Joachim Holstein, Jörg Lange, Anita Roth-Nebelsick, Christopher Traiser, Hubert Höfer, Florian Raub, Anton Güntsch, Gabriele Dröge, Patricia Kelbert, Dagmar Triebel, Anton Link, Markus Weiss, Dieter Neubacher, Tanja Weibulat* 652. BiNHum: powerful access to Natural History Collections
- 9.30 AM – 9.45 AM *Stinger Guala* 596. Biodiversity Information Serving Our Nation (BISON): The First 18 Months
- 9.45 AM – 10.00 AM *Balasubramanian Dhandapani, Pierre Grard, Thomas Le Bourgeois, Ramesh Ranganna Brahmasamudra* 592. A Biodiversity Platform for Weed Identification and Knowledge System in the Western Indian Ocean
- 10.00 AM – 10.15 AM *Dairo Escobar, Daniel Amariles, María Fernanda Gómez, Karen Soacha, Néstor Beltrán, Camila Plata, Marcela Delgado, Leonardo Buitrago, Valentina Grajales, Oscar Duque, María Fernanda Cubillos, Hugo Escobar, Carlos Cubillos, Juan Bello* 678. SiB Colombia: Sharing and accessing biodiversity data
- 10.15 AM – 10.30 AM *Eduardo Krempser, Douglas Adriano Augusto, Livia Abdalla, Marcia Chame* 719. Brazilian Information System in Wildlife Health - SISS-Geo

9.00 AM – 10.30 AM SYMPOSIUM S07 **ABCD 3: WHICH WAY TO GO? - RUM 10**

Organizers: Gabriele Dröge, Jana Hoffmann, Jörg Holetschek

- 9.00 AM – 9.15 AM *Joerg Holetschek* 591. BioCAsE, ABCD and its extensions
- 9.15 AM – 9.30 AM *Jana Hoffmann* 706. A community platform for the development and documentation of the ABCD standard
- 9.30 AM – 9.45 AM *David Fichtmüller* 648. Semantic MediaWiki as a potential tool for ABCD 3.0 development
- 9.45 AM – 10.00 AM *Patricia Kelbert, Gabriele Droege, Jörg Holetschek, Anton Güntsch* 580. Using the Harvesting and Indexing Toolkit in Special Interest Networks
- 10.00 AM – 10.30 AM *Joerg Holetschek, Gabriele Dröge* 753. Discussion

9.00 AM – 10.30 AM WORKSHOP W02. **EFFECTIVE BIODIVERSITY DATA MANAGEMENT TRAINING, RUM 10**

Organizers: Birgitta König-Ries, Roman Gerlach, Jitendra Gaikwad, A. Townsend Peterson

- 9.00 AM – 9.20 AM *Roman Gerlach, Jitendra Gaikwad, Birgitta Koenig-Ries, Town Peterson*
755. Data Management (Training) Workshop
- 9.20 AM – 9.40 AM *Deborah Paul* 573. Data Carpentry: Filling a data literacy and computational literacy gap.
- 9.40 AM – 10.00 AM *Nestor Beltran, Dairo Escobar, Camila Plata, Marcela Delgado, Alfred Buitrago, Juan Bello* 689. Publishing biodiversity data under a new training scheme from SiB Colombia
- 10.00 AM – 10.30 AM *Jitendra Gaikwad, Roman Gerlach* 762. General Discussion for W02 Effective Biodiversity Data Management Training

10.30 AM – 11.00 AM Break (Coffee & Posters in **Foyer at Elmia CC**)

11.00 AM – 12.30 PM SYMPOSIUM S03 **STANDARDS FOR MOBILISING AND INTEGRATING SAMPLE-BASED DATA - RYDBERGSALEN**

Organizers: Éamonn Ó Tuama, Hannu Saarenmaa

- 11.00 AM – 11.05 AM *Hannu Saarenmaa* 747. Introduction
- 11.05 AM – 11.20 AM *Éamonn Ó Tuama, Markus Döring, Kyle Braak, Tim Robertson, Olaf Bánki* 579. Publishing sample data using the GBIF IPT
- 11.20 AM – 11.35 AM *Philip Goldstein* 637. OBIS-USA Marine BioGeography Extensions in United States Government Science Context; Biodiversity Goals in Regulation, Monitoring, Response, Economic Activity, Education, and Research
- 11.35 AM – 11.50 AM *Gabriele Droege, Katharine Barker, Paul Flemons, Tom Orrell, Jamie Whitacre* 575. The GGBN Data Standard and its Darwin Core Archive implementation
- 11.50 AM – 12.05 PM *Ramona Walls, Robert Guralnick* 728. Complex Data Modeling for Simpler Data Access
- 12.05 PM – 12.30 PM *Éamonn Ó Tuama* 745. Discussion

11.00 AM – 12.15 AM CONTRIBUTED PAPERS C05 TECHNICAL TOPICS - RUM 10

Moderator: TBA

- 11.00 AM – 11.15 AM *David Peter Shorthouse, Christian Gendreau* 593. Simplifying the mechanics toward building a Biodiversity Knowledge Graph
- 11.15 AM – 11.30 AM *Julie Chataigner* 604. Mapping the Darwin Core with a national data exchange standard: feedback and issues
- 11.30 AM – 11.45 AM *Ramona L. Walls, John Deck, Robert Guralnick, John Wieczorek* 688. Using the Biological Collections Ontology to Advance Biodiversity Science
- 11.45 AM – 12.00 PM *Dag Endresen, Christian Svindseth* 603. Persistent identifiers for museum specimens in Norway
- 12.00 PM – 12.15 PM *Victor Mose, David Western* 763. Database tools for decision support in Kajiado County, Kenya
- 12.15 PM – 12.30 PM *Rovellotti Olivier, Julie Chabaliier, Yves Hingrat* [687 ecoRelevé: Data made simple](#)

11.00 AM – 12.30 PM IG/TG06 TRAITS IN RDF TASK GROUP - RUM 11

Organizers: Anais Grand & Cyndy Parr

- 11.00 AM – 12.30 PM [739. Traits in RDF Task Group Meeting](#)

Thursday 30 October

RYDBERGSALEN

- 8.45 AM – 9.00 AM** Announcements
- 9.00 AM – 9.30 AM** Lightning Talks:
9.00 AM – 9:05 AM *David Peter Shorthouse, Dmitry Mozzherin 594. Article Semanticizer - stitching data mining services into a standalone search appliance*
9.05 AM – 9.10 AM *Robert D. Stevenson, Evangelos Pafilis, Carl Nordman, Lesley Sneddon 662. There is No Place Like Home: Defining “Habitat” for Biodiversity and Conservation science - Can we develop a research agenda for Habitat Informatics?*
9.10 AM – 9.30 AM *And more....*
- 9.30 AM – 10.30 AM** Keynote Presentation: *Steve Kelling 572. eBird: Monitoring Biodiversity Globally- Challenges, Lessons Learned, and the Contribution of Volunteers in Research and Conservation*

10.30 AM – 11.00 AM Break (Coffee & Posters in **Foyer at Elmia CC**)

11.00 AM – 12.30 AM SYMPOSIUM S11:1 **CITIZEN SCIENCE: A GROWING APPROACH TO BIODIVERSITY MONITORING - RYDBERGSALEN**

Organizers: Robert D. Stevenson, Nicole Kaplan, Louis Liebenberg

- 11.00 AM – 11.15 AM *Louis Wilhelm Liebenberg, Justin Steventon 567. CyberTracker and Citizen Science*
- 11.15 AM – 11.30 AM *Leslie Ries 576. Butterfly monitoring in North America: impacts on science and opportunities for the future*
- 11.30 AM – 11.45 AM *Michael Pocock 618. A UK view on the breadth and depth of citizens reporting biodiversity observations*
- 11.45 AM – 12.00 PM *Thomas Vattakaven 578. Citizen Science and the India Biodiversity Portal*
12.00 PM – 12.15 PM *Ulf Gärdenfors, Anna Maria Wrempe 742. Artportalen – citizen science data contributing to biodiversity research and conservation*
- 12.15 PM – 12.30 PM *Paul Kenneth Flemons 643. Citizen Science and the Atlas of Living Australia*

11.00 AM – 12.30 PM SYMPOSIUM S09 BIODIVERSITY DATA SYNTHESIS AND DISCOVERY AT A TREE OF LIFESCALE - RUM 10

Organizers: Nico Cellinese, Hilmar Lapp

- 11.00 AM – 11.15 AM *Karen Cranston* 702. Synthesizing phylogenetic and taxonomic data into a comprehensive tree of life
- 11.15 AM – 11.30 AM *Luke J Harmon* 614. Arbor: Comparative Analysis Workflows for the Tree of Life
- 11.30 AM – 11.45 AM *Carmen Lorena Endara, Carrine E. Blank, John Gordon Burleigh, Andrea Cirranello, Hong Cui, Marymegan Daly, Gail Gasparich, Mariangeles Arce Hernandez, Jed Irvine, Lisa Moore, Thomas G. Dietterich, Jing Liu, Seth Kaufman, Michael Lam, Maureen O'Leary, Maria Passaroti, Javier Robalino, Nancy Simmons, Joan Slonczewski, Dennis Wm. Stevenson, Robert W. Thacker, Edward Theriot, Sinisa Todorovic, Ramona Walls, Paul M. Velazco, Elvis H. Wu, Anna Yu* 633. Next-generation phenomics for the Tree of Life
- 11.45 AM – 12.00 PM *Katja Sabine Schulz, Jennifer Hammock, Cynthia Parr* 680. TraitBank: Integrating Trait Data Across The Tree of Life
- 12.00 PM – 12.15 PM *Rob Penn Guralnick* 671. Map of Life and Integrating Big Data in Ecology and Evolution
- 12.15 PM – 12.30 PM *Pamela S. Soltis* 712. Linking Diverse Data in Studies of Plant Evolution: Case Studies in Progress

11.00 AM – 12.30 PM SYMPOSIUM S02:1 BIODIVERSITY DATA QUALITY - ISSUES, METHODS AND TOOLS - RUM 11

Organizer: Antonio Mauro Saraiva

- 11.00 AM – 11.10 AM *Antonio Mauro Saraiva* 640. Data Quality Symposium: introduction and review of activities
- 11.10 AM – 11.25 AM *Arthur Chapman* 585. Risk, Data Quality and Truth in Labelling
- 11.25 AM – 11.40 AM *Allan Koch Veiga, Antonio Mauro Saraiva* 672. Toward a Conceptual Framework for the Assessment and Management of the Fitness-for-Use of Biodiversity Data
- 11.40 AM – 11.55 PM *Christian Gendreau, David P. Shorthouse, Tim Robertson, Marie-Élise Lecoq* 568. Darwin Core Archive (DwC-A) validation: A New Collaborative Effort
- 11.55 PM – 12.10 PM *Matthias Obst* 661. Workflows for improving taxonomic data quality: a showcase from the Swedish west coast
- 12.10 PM – 12.25 PM *Peter Desmet, Dimitri Brosens* 625. Occurrence data at the INBO: opening up our data publication workflow
- 12.25 PM – 12.30 PM *Nestor Beltran, Dairo Escobar, Camila Plata, Marcela Delgado, Alfred Buitrago, Juan Bello* 685. Biodiversity Data Quality: A new approach from SiB Colombia

12.30 PM – 2.00 PM Lunch at **Scandic Elmia**

2.00 PM – 3.30 PM SYMPOSIUM S11:2 **CITIZEN SCIENCE: A GROWING APPROACH TO BIODIVERSITY MONITORING - RYDBERGSALÉN**

Organizers: Robert D. Stevenson, Nicole Kaplan, Louis Liebenberg

2.00 PM – 2.15 PM *Cullen Keaton Hanks* 582. Texas Parks and Wildlife Department uses iNaturalist to collect natural heritage data

2.15 PM – 2.30 PM *Christy V Pattengill-Semmens* 635. Making Dives That Count: ocean citizen science monitoring

2.30 PM – 2.45 PM *Nicole E. Kaplan* 577. CitSci.org: a comprehensive, rigorous, web-based data management platform for citizen science

2.45 PM – 3.00 PM *Oskar Kindvall, Anna Maria Wremp* 743. Swedish LifeWatch – a research infrastructure for biodiversity data

3.00 PM – 3.15 PM *Angelique Greer Hjarding* 695. Are biodiversity data gaps in urban areas a social justice issue?

3.15 PM – 3.30 PM *Robert D. Stevenson, Yurong He, HeeJun Kim, Todd E Suomela* 658. Tuning the Citizen Science “Instrument” for Gathering Biodiversity Data and Maintaining Data Quality

**2.00 PM – 3.30 PM WORKSHOP W03:1 SOFTWARE SOLUTIONS FOR DATA
MANAGEMENT - RUM 10**

**Organizers: Birgitta König-Ries, Roman Gerlach, Jitendra Gaikwad,
Dagmar Triebel Markus Weiss**

2.00 PM – 2.10 PM	<i>Roman Gerlach</i> 756. Introduction to W03 Software Solutions for Data Management
2.10 PM – 2.15 PM	<i>John Deck</i> 698. Biocode Field Information Management System
2.15 PM – 2.20 PM	<i>Markus Weiss, Anton Link, Wolfgang Reichert, Veronica Sanz, Gerhard Rambold, Dagmar Triebel</i> 683. Diversity Workbench – Import Wizards
2.20 PM – 2.25 PM	<i>Vincent Robert</i> 600. StrainsBook pipeline based on the BioloMICS software
2.25 PM – 2.30 PM	<i>Niall Beard, Alan Robert Williams, Stuart David Owen, Carole Anne Goble</i> 649. RightField - Spreadsheets with meaning
2.30 PM – 2.35 PM	<i>David Fichtmueller, Maren Gleisberg, Naouel Karam, Robert Tolksdorf, Anton Güntsch</i> 656. Handling Terminology Data within GFBio
2.35 PM – 2.40 PM	<i>Mohamed Berkani, Anaïs Grand, Annemarie Ohler, Alain Dubois</i> 583. The Taxonomina application
2.40 PM – 2.45 PM	<i>Jana Hoffmann, Falko Glöckler</i> 701. The BioCASE Monitor Service - A tool for monitoring progress and quality of data provision through distributed data networks
2.45 PM – 2.50 PM	<i>Andreas Müller, Andreas Kohlbecker, Katja Luther, Cherian Mathew, Alexander Oppermann, Patrick Plitzner</i> 590. The EDIT Platform for Cybertaxonomy
2.50 PM – 2.55 PM	<i>Ulrich Burkhardt, David J. Russell, Hubert Höfer, Stephan Lesch, Sebastian Rick, Jörg Römbke, Willi E.R. Xylander</i> 764. Edaphobase: a new online soil zoological data warehouse
2.55 PM – 3.00 PM	<i>Jens Kattge, Gerhard Bönisch, Sandra Diaz, Sandra Lavorel, Paul Leadley, Colin Prentice, Christian Wirth</i> 692. TRY – solutions for incentives driven data sharing
3.00 PM – 3.05 PM	<i>Kyle Braak</i> 601. IPT Demo & Presentation
3.05 PM – 3.10 PM	<i>Thomas Rodenhausen, Hong Cui, Fengqiong Huang, Bertram Ludäscher, James Macklin, Bob Morris, Shizhuo Yu</i> 708. ETC: From description to matrix and beyond in a web-based toolbox
3.10 PM – 3.15 PM	<i>Niall Beard, Alan Robert Williams, Stuart David Owen, Carole Anne Goble</i> 655. SEEK for Science
3.15 PM – 3.20 PM	<i>Roman Gerlach, David Blaa, Javad Chamanara, Martin Hohmuth, Nafiseh Navabpour, Sven Thiel, Birgitta König-Ries</i> 670. BExIS 2 – a flexible data management platform for Biodiversity
3.20 PM – 3.30 PM	<i>Dagmar Triebel, Jitendra Gaikwad</i> 757. Roundup and Discussion of W03 Software Solutions for Data Management

2.00 PM – 3.00 PM SYMPOSIUM S02:2 **BIODIVERSITY DATA QUALITY - ISSUES, METHODS AND TOOLS - RUM 11**

Organizer: Antonio Mauro Saraiva

2.00 PM – 2.15 PM *Javier Otegui, Robert Guralnick, John Wieczorek, David Bloom, Laura Russell* 704. *The Spatio-Taxonomic Data Quality API: Rationale, Development and Examples*

2.15 PM – 2.30 PM *Robert A Morris, James Hanken, David B. Lowery, Bertram Ludäscher, James A. Macklin, Chuck McCallum, Paul J. Morris, Tianhong Song* 703. *Two approaches to finding botanical duplicate occurrences (and other relations among specimens) in the face of noisy data*

2.30 PM – 3.00 PM *Antonio Mauro Saraiva* 744. *Discussion*

3.00 PM – 3.30 PM IG/TG07. **(PROPOSED) INTEREST GROUP ON DATA QUALITY - RUM 11**

Organizer: Antonio Mauro Saraiva, Arthur Chapman

3.00 PM – 3.30 PM 740. *(Proposed) Interest Group on Data Quality*

3.30 PM – 4.00 PM Break (Coffee & Posters in **Foyer at Elmia CC**)

4.00 PM – 5.30 PM WORKSHOP W05. **BUILDING BIODIVERSITY INFORMATICS STANDARDS AND CAPACITY FOR CITIZEN SCIENCE - RYDBERGSALÉN**

Organizers: Robert D. Stevenson, Nicole Kaplan, Louis Liebenberg

4.00 PM – 5.30 PM 741. *Building Biodiversity Informatics Standards and Capacity for Citizen Science*

4.00 PM – 5.30 PM **WORKSHOP W03:2 SOFTWARE SOLUTIONS FOR DATA MANAGEMENT - RUM 10**

**Organizers: Roman Gerlach, Jitendra Gaikwad,
Dagmar Triebel**

4.00 PM – 5.30 PM 758. Demo Session for W03 Software Solutions for Data Management

4.00 PM – 5.30 PM **IG/TG04 INTEREST AND TASK GROUP CONVENER DISCUSSION WITH THE EXECUTIVE - RUM 11**

Organizer: Cyndy Parr

4.00 PM – 5.30 PM 736. Interest and Task Group Convener Discussion with the Executive

Friday 31 October

RYDBERGSALEN

8.30 AM – 9.30 AM TDWG Business Meeting

9.30 AM – 10.30 AM Reports from Interest & Task Groups

10.30 AM – 11.00 AM Break (Coffee in **Foyer at Elmia CC**)

RYDBERGSALEN

11.00 AM – 11.15 AM Election results

11.15 AM – 12.00 PM Preview of TDWG 2015

12.00 PM – 12.30 PM Summary, Closing Session

12.30 PM – 2.00 PM Lunch at **Scandic Elmia**

**TDWG 2014 Schedule
by Date & Time
(Parallel Sessions 27-31 October)**

Monday 27 October				
	Rydbergsalen	Rum 10	Rum 11	Rum 12
9.00	General information			
9.15	Chair's address			
9.30	Keynote 9.30-10.00 <i>Ariño</i> 729 . Shades of Grey: Yet Another role for BIS-TDWG			
10.00	10.00-10.15 <i>Agosti</i> 715 . The Bouchot Declaration for Open Biodiversity Knowledge Management.			
10.15	10.15-10.30 <i>Mergen et al.</i> 629 . Need for Controlled Vocabularies on Intellectual Property Right Statements?			
10.30-11.00 AM Break, Coffee and Posters at Elmia CC Foyer				
11.00	S05 11.00-11.10 <i>Haston & Cubey</i> 668 . Discovery and access to digitisation tools and methods	S04 11.00-11.15 <i>Patterson</i> 616 . Towards a names-based component of the infrastructure for biodiversity sciences: status and next steps	C01 11.00-11.15 <i>Ellwood et al.</i> 642 . Building the historical biodiversity baseline: Emerging iDigBio resources for onsite and online public participation in the digitization of biodiversity research specimens	

11.15	S05 11.10-11.30 Kroupa et al. 686. The Open Drawer Project - Providing free access to high resolution images of entomological collection drawers	S04 11.15-11.30 Flann 657. Connecting the taxonomic community and the names infrastructure community	C01 11.15-11.30 Chame et al. 721. Citizen Science: an alternative for monitoring emergent diseases arising from biodiversity in Brazil	
11.30	S05 11.30-11.50 Kirchhoff et al. 584. StanDAP- Herb develops a standard process for extracting metadata from digitised herbarium specimens	S04 11.30-11.45 Wetzel et al. 664. Fauna Europaea – future perspectives	C01 11.30-11.45 Bonnet et al. 611. PI@ntNet, a citizen science platform dedicated to plant identification and botanical monitoring	
11.45	S05 11.50-12.10 Holtzhausen et al. 627. Moving beyond the box: automating the digitisation of insect collections	S04 11.45-12.00 Vattakaven & Prabhakar 587. A curation interface for reconciliation of species names for India.	C01 11.45-12.00 Panteri et al. 684. Crowd Sourcing Initiatives in the Mediterranean Basin	
12.00	“ - ”	S04 12.00-12.15 Ji 599. Taxonomic Tree Tool - a platform for classification analysis	C01 12.00-12.15 Glöckler, et al 682. Lessons learned - The generic citizen science biodiversity data application ‘anymals + plants’	
12.15	S05 12.10-12.30 Pluta et al.693. ZooSphere - Development of a software for automated spheric image capturing and interactive 3D visualization of biological collection objects	S04 12.15-12.30 Koureas & Smith 724. Identifying funding and collaboration opportunities to support the global names e-infrastructure	C01 12.15-12.30 Agosti et al. 714. The 1 Million Treatment Goal: How to create access to taxonomic treatments	
Monday 12.30-14.00 Lunch at Elmia CC				

14.00	S05 14.00-14.20 <i>Morris et al.</i> 697 . Capturing Inventory level information about collections as a step in object to image to data workflows	IG/TG01 14.00-15.30 Session <i>Chair: Koivula</i> 646 . Biodiversity Informatics Curriculum Interest Group	W04 14.00-15.30 <i>Macklin</i> 748 . Darwin Core: Overview and Future Directions	
14.15	S05 14.20-14.40 <i>Paul et al.</i> 597 . Data Discovery and Doer Happiness: Uses for Optical Character Recognition (OCR) Output			
14.30	“ - -			
14.45	S05 14.40-15.00 <i>Batista-Navarro et al.</i> 588 . Enriching the legacy literature with OCR corrections and text-mined semantic metadata			
15.00	S05 15.00-15.20 <i>Riccardi, et al.</i> 632 . Managing Digitization Projects with Biospex			
15.15	S05 15.20-15.30 <i>Haston et al</i> 732 . Discussion: Access to Digitisation Tools and Methods (data)			
Monday 15.30-16.00 PM Break, Coffe and Posters at Elmia CC Foyer				

16.00	S05 16.00-16.20 <i>Mononen et al.</i> 617. Optical character recognition (OCR) in linking entomological labels with field notebook data	W06 16.00-17.30 <i>Parr</i> 731. TDWG Newcomers Chat	W04 16.00-17.30 <i>Session Chair: Markus Döring</i> 749. Typing in Darwin Core: Do we need dwc:basisOfRecord?	
16.15	S05 16.20-16.40 <i>Grant et al.</i> 636. What do you do when your Network Manager tells you there is no more space and they mean it?			
16.30	S05 16.40-17.00 <i>Pafilis et al.</i> 645. ENVIRONMENTS-EOL: identification of Environment Ontology terms in text and the annotation of the Encyclopedia of Life			
16.45	- “ -			
17.00	S05 17.00-17.20 <i>Frank</i> 679. Case study of reuse of digitised content by creative industry in games: Europeana Creative			
17.15	S05 17.20-17.30 <i>Haston et al.</i> 733. Discussion: Access to Digitisation Tools and Methods (linking and management)			

Tuesday 28 October				
	Rydbergsalen	Rum 10	Rum 11	Rum 12
9.00	9.00-9.30 TDWG			
9.15	Election Information			
9.30	Keynote 9.30-			
9.45	10.30 <i>Endresen</i>			
10.00	759. Searching for traits of resistance to crop diseases and pests in plant genetic resources			
10.15				
10.30-11.00 AM Break, Coffee and Posters at Elmia CC Foyer				
11.00	C02 11.00-11.15 <i>Laporte et al.</i> 673. The development of a community agreed thesaurus of plant traits	C03 11.00-11.15 <i>Livermore et al.</i> 705. Rapid Data Entry – supporting high-throughput digitisation workflows in EMu	W01 11.00-11.10 <i>R. Morris</i> 711. An RDF representation of the TDWG Audubon Core data model for multimedia resource metadata	IG/TG05 11.00-12.00 <i>P. Morris</i> 737. Annotations Interest Group
11.15	C02 11.15-11.30 <i>Matteis et al.</i> 690. Crop Ontology: A web tool for managing plant breeders' traits	C03 11.15-11.30 <i>Ithe et al.</i> 726. The present state of the digitalization in Democratic Republic of Congo: Case of the Herbarium of Lwiro	W01 11.10-11.25 <i>Riccardi & Imminni</i> 631. Audubon Core at iDigBio W01 11.25-11.40 <i>Droege & Grobe</i> 722. Implementation of Audubon Core in ABCD with proposal of new terms for audio and video facts	
11.30	C02 11.30-11.45 <i>Nsevolo et al.</i> 615. Edible insects and food security in DR Congo	C03 11.30-11.45 <i>Rajagopal et al.</i> 586. Capacity Building in Biodiversity Informatics in the Biodiversity-Rich Tropics	W01 11.40-12.00 <i>Droege & Morris</i> 754. Discussion	

11.45	C02 11.45-12.00 Raminosoa 619. The Use of Plants Database to Identify New Botanical Inventory Zones in Madagascar.	C03 11.45-12.00 Parker-Allie 639. Mobilising Biodiversity Information in Support of Science and Policy in South African National Biodiversity Institute		
12.00	C02 12.00-12.15 Gueta et al. 613. Using GBIF data to test niche vs. neutrality theories at a continental scale, and the value of data cleaning	C03 12.00-12.15 Karame 628. "Bioinformatics-led Solutions For sustainable Natural Resources management in Rwanda (BS4NR)"		
12.15	C02 12.15-12.30 Feest 559. Biodiversity Quality Assessment	C03 12.15-12.30 Escobar et al. 691. Publishing model and data papers: A synergy between a Latin American journal and SiB Colombia		
Tuesday 12.30-14.00 Lunch at Elmia CC				
14.00	S06 14.00-14.10 Ronquist & Karlsson 699. Distributed open-source development in the DINA consortium	S08 14.00-14.15 Kalfatovic 563. The Biodiversity Literature and Natural History Collections: The State of the BHL	W04 14.00-15.30 Session Chair: Pyle 750. Nomenclature in Darwin Core	IG/TG03 14.00-15.30 Session Chair: Deck 735. Genomic Biodiversity Working Interest Group Meeting
14.15	S06 14.10-14.30 Macklin et al. 621. Standards-based management of specimen-derived DNA sequences	S08 14.15-14.30 Sheffield 562. Improving discovery of biodiversity literature through integrated services		

14.30	S06 14.30-14.50 Glöckler et al. 650. Digital representations of the collection objects in the Museum für Naturkunde Berlin	S08 14.30-14.45 Ulate 557. Unlocking biodiversity knowledge through Text Mining and Crowdsourced Tagging of Legacy Literature		
14.45	S06 14.50-15.10 Husson 608. Valorization over 350 years of natural history collections: e-ReCoNat a digital platform for the environment and society	S08 14.45-15.00 Rinaldo 566. "Making Links in the BHL: primary source material as a window to a scientist's methods"		
15.00	S06 15.10-15.30 Grand & Berkani 624. NoSQL and Linked Data for collection and taxonomic data	S08 15.00-15.15 Russell 570. Botanical Specimens, Field Notes, and Biodiversity Literature: Connections and Data Mining		
15.15		S08 15.15-15.30 Sheffield 752. Discussion		
Tuesday 15.30-16.00 PM Break, Coffee and Posters at Elmia CC Foyer				
16.00	S06 16.00-16.20 Skyttner et al. 669. The DINA Web API	S01 16.00-16.02 Macklin 760. Introduction to S01 Biodiversity Informatics workflows and services S01 16.02-16.15 <i>Obst</i> 574. BioVeL - Approach and outcome of the Biodiversity Virtual e-Laboratory project	W04 16.00-17.30 <i>Session Chair:</i> Robbins 751. Genomics and Metagenomics: What is the role of the Darwin Core?	W04 16.00-17.30 <i>Session Chair:</i> Kalfatovic 734. Literature Interest Group Meeting

Tuesday

16.15	S06 16.20-16.40 <i>Karlsson</i> 610 . Demonstration of a DINA compliant MediaServer	S01 16.15-16.28 <i>Müller et al.</i> 605 . Biodiversity needs Web Service registration system		
16.30	S06 16.40-17.30 <i>Ronquist</i> 761 . Discussion for S06 DINA Consortium	S01 16.28-16.41 <i>Authmann et al.</i> 674 . Analytical Workflows for Large Data		
16.45		S01 16.41-16.54 <i>Ludaescher et al.</i> 700 . Workflow Support for Continuous Data Quality Control in a FilteredPush Network S01 16.54-17.07 <i>Gadelha et al.</i> 644 . Scalable and Provenance-Enabled Scientific Workflows for Species Distribution Modeling		
17.00		S01 17.07-17.20 <i>Gendreau et al.</i> 609 . Biodiversity Data Quality tailored for Scientific Workflows		
17.15		S01 17.20-17.30 <i>Macklin</i> 727 . Summary and Discussion		

Wednesday 29 October				
	Rydbergsalen	Rum 10	Rum 11	Rum 12
9.00	C04 9.00-9.15 <i>Koureas et al.</i> 663 . Linking data, services and communities using Virtual Research Environments (VRE); The Scratchpads example	S07 9.00-9.15 <i>Holetschek</i> 591 . BioCAsE, ABCD and its extensions	W02 9.00-9.20 <i>Gerlach et al.</i> 755 . Data Management (Training) Workshop	
9.15	C04 9.15-9.30 <i>Köhler et al.</i> 652 . BiNHum: powerful access to Natural History Collections	S07 9.15-9.30 <i>Hoffmann</i> 706 . A community platform for the development and documentation of the ABCD standard	W02 9.20-9.40 <i>Paul</i> 573 . Data Carpentry: Filling a data literacy and computational literacy gap.	
9.30	C04 9.30-9.45 <i>Guala</i> 596 . Biodiversity Information Serving Our Nation (BISON): The First 18 Months	S07 9.30-9.45 <i>Fichtmüller</i> 648 . Semantic MediaWiki as a potential tool for ABCD 3.0 development	“ - -	
9.45	C04 9.45-10.00 <i>Dhandapani et al</i> 592 . A Biodiversity Platform for Weed Identification and Knowledge System in the Western Indian Ocean	S07 9.45-10.00 <i>Kelbert et al.</i> 580 . Using the Harvesting and Indexing Toolkit in Special Interest Networks	W02 9.40-10.00 <i>Beltran et al.</i> 689 . Publishing biodiversity data under a new training scheme from SiB Colombia	

10.00	C04 10.00-10.15 <i>Escobar et al.</i> 678. SiB Colombia: Sharing and accessing biodiversity data	S07 10.00-10.30 <i>Holetschek & Dröge</i> 753. Discussion	W02 10.00-10.30 <i>Gaikwad & Gerlach</i> 762. General Discussion for W02 Effective Biodiversity Data Management Training	
10.15	C04 10.15-10.30 <i>Krempser et al.</i> 719. Brazilian Information System in Wildlife Health - SISS-Geo			
10.30-11.00 AM Break, Coffee and Posters at Elmia CC Foyer				
11.00	S03 11.00-11.05 <i>Saarenmaa</i> 747. Introduction S03 11.05-11.20 Ó <i>Tuama et al.</i> 579. Publishing sample data using the GBIF IPT	C05 11.00-11.15 <i>Shorthouse & Gendreau</i> 593. Simplifying the mechanics toward building a Biodiversity Knowledge Graph	IG/TG06 11.00-12.30 Session Chairs: <i>Grand & Parr</i> 739. Traits in RDF Task Group Meeting	
11.15	S03 11.20-11.35 <i>Goldstein</i> 637. OBIS-USA Marine BioGeography Extensions in United States Government Science Context; Biodiversity Goals in Regulation, Monitoring, Response, Economic Activity, Education, and Research	C05 11.15-11.30 <i>Chataigner</i> 604. Mapping the Darwin Core with a national data exchange standard: feedback and issues		
11.30	S03 11.35-11.50 <i>Droege et al.</i> 575. The GGBN Data Standard and its Darwin Core Archive implementation	C05 11.30-11.45 <i>Walls et al.</i> 688. Using the Biological Collections Ontology to Advance Biodiversity Science		
11.45	S03 11.50-12.05 <i>Walls & Guralnick</i> 728. Complex Data Modeling for Simpler Data Access	C05 11.45-12.00 <i>Endresen & Svindseth</i> 603. Persistent identifiers for museum specimens in Norway		
12.00	S03 12.05-12.30 Ó <i>Tuama</i> 745. Discussion	C05 12.00-12.15 <i>Mose & Western</i> 763. Database tools for decision support in Kajiado County, Kenya		
12.15	“ - -	C05 12.15-12.30 <i>Olivier et al.</i> 687. ecoRelevé: Data made simple		
Wednesday 12.30-14.00 Lunch at Elmia CC				

Thursday 30 October				
	Rydbergsalen	Rum 10	Rum 11	Rum 12
8.45	Announcements			
9.00	Lightning talks 9.00-9.05 <i>Shorthouse & Mozzherin</i> 594 . Article Semanticizer - stitching data mining services into a standalone search appliance Lightning talks 9.05-9.10 <i>Stevenson et al</i> 662 . There is No Place Like Home: Defining "Habitat" for Biodiversity and Conservation science - Can we develop a research agenda for Habitat Informatics?			
9.15	<i>more lightning talks?</i>			
9.30	Keynote 9.30-10.30			
9.45	<i>Kelling</i> 572 . eBird: Monitoring			
10.00	Biodiversity Globally- Challenges, Lessons Learned, and the Contribution of			
10.15	Volunteers in Research and Conservation			
10.30-11.00 AM Break, Coffee and Posters at Elmia CC Foyer				

11.00	S11 11.00-11.15 Liebenberg & Steventon 567. CyberTracker and Citizen Science	S09 11.00-11.15 Cranston 702. Synthesizing phylogenetic and taxonomic data into a comprehensive tree of life	S02.11.00-11.10 Saraiva 640. Data Quality Symposium: introduction and review of activities
11.15	S11 11.15-11.30 Ries 576. Butterfly monitoring in North America: impacts on science and opportunities for the future	S09 11.15-11.30 Harmon 614. Arbor: Comparative Analysis Workflows for the Tree of Life	S02 11.10-11.25 Chapman 585. Risk, Data Quality and Truth in Labelling
11.30	S11 11.30-11.45 Pocock 618. A UK view on the breadth and depth of citizens reporting biodiversity observations	S09 11.30-11.45 Endara et al. 633. Next-generation phenomics for the Tree of Life	S02 11.25-11.40 Veiga & Saraiva 672. Toward a Conceptual Framework for the Assessment and Management of the Fitness-for-Use of Biodiversity Data
11.45	S11 11.45-12.00 Vattakaven 578. Citizen Science and the India Biodiversity Portal	S09 11.45-12.00 Schulz et al. 680. TraitBank: Integrating Trait Data Across The Tree of Life	S02 11.40-11.55 Gendreau et al. 568. Darwin Core Archive (DwC-A) validation: A New Collaborative Effort
12.00	S11 12.00-12.15 Gärdenfors & Wremp 742. Artportalen – citizen science data contributing to biodiversity research and conservation	S09 12.00-12.15 Guralnick 671. Map of Life and Integrating Big Data in Ecology and Evolution	S02 11.55-12.10 Obst 661. Workflows for improving taxonomic data quality: a showcase from the Swedish west coast
12.15	S11 12.15-12.30 Flemons 643. Citizen Science and the Atlas of Living Australia	S09 12.15-12.30 Soltis 712. Linking Diverse Data in Studies of Plant Evolution: Case Studies in Progress	S02 12.10-12.25 Desmet & Brosens 625. Occurrence data at the INBO: opening up our data publication workflow S02 12.25-12.30 Beltran et al. 685. Biodiversity Data Quality: A new approach from SiB Colombia
Thursday 12.30-14.00 Lunch at Elmia CC			

Thursday

14.00	S11 14.00-14.15 Hanks 582. Texas Parks and Wildlife Department uses iNaturalist to collect natural heritage data	W03 14.00-14.10 Gerlach 756. Introduction to W03 Software Solutions for Data Management W03 14.10-14.15 Deck 698. Biocode Field Information Management System	S02 14.00-14.15 Otegui et al. 704. The Spatio-Taxonomic Data Quality API: Rationale, Development and Examples
14.15	S11 14.15-14.30 Pattengill-Semmens 635. Making Dives That Count: ocean citizen science monitoring	W03 14.15-14.20 Weiss et al. 683. Diversity Workbench – Import Wizards W03 14.20-14.25 Robert 600. StrainsBook pipeline based on the BioloMICS software W03 14.25-14.30 Beard et al. 649. RightFieldSpreadsheets with meaning	S02 14.15-14.30 Morris et al. 703. Two approaches to finding botanical duplicate occurrences (and other relations among specimens) in the face of noisy data
14.30	S11 14.30-14.45 Kaplan 577. CitSci.org: a comprehensive, rigorous, web-based data management platform for citizen science	W03 14.30-14.35 Fichtmüller et al. 656. Handling Terminology Data within GFBio W03 14.35-14.40 Berkani et al. 583. The Taxonomina application W03 14.40-14.45 Hoffmann & Glöckler 701. The BioCAsE Monitor Service - A tool for monitoring progress and quality of data provision through distributed data networks	S02 14.30-15.00 Saraiva 744. Discussion
14.45	S11 14.45-15.00 Kindval & Wremp 743. Swedish LifeWatch – a research infrastructure for biodiversity data	W03 14.45-14.50 Müller et al. 590. The EDIT Platform for Cybertaxonomy W03 14.50-14.55 Burkhardt et al. 764. Edaphobase: a new online soil zoological data warehouse W03 14.55-15.00 Kattge et al. 692. TRY – solutions for incentives driven data sharing	

15.00	S11 15.00-15.15 Hjarding 695. Are biodiversity data gaps in urban areas a social justice issue?	W03 15.00-15.05 <i>Braak 601. IPT Demo & Presentation</i> W03 15.05-15.10 <i>Rodenhausen et al. 708. ETC: From description to matrix and beyond in a web-based toolbox</i> W03 15.10-15.15 <i>Beard et al. 655. SEEK for Science</i>	IG/TG07 15.00-15.30 <i>Saraiva & Chapman 740. (Proposed) Interest Group on Data Quality</i>	
15.15	S11 15.15-15.30 <i>Stevenson et al. 658. Tuning the Citizen Science "Instrument" for Gathering Biodiversity Data and Maintaining Data Quality</i>	W03 15.15-15.20 <i>Gerlach et al. 670. BExIS 2 – a flexible data management platform for Biodiversity</i> W03 15.20-15.30 <i>Triebel & Gaikwad 757. Roundup and Discussion of W03 Software Solutions for Data Management</i>		
Thursday 15.30-16.00 PM Break, Coffee and Posters at Elmia CC Foyer (remove posters)				
16.00	W05 16.00-17.30 <i>Stevenson 741. Building Biodiversity Informatics Standards and Capacity for Citizen Science</i>	W03 16.00-17.30 <i>Gerlach et al. 758. Demo Session for W03 Software Solutions for Data Management</i>	IG/TG04 16.00-17.30 Session Chair: <i>Cyndy Parr 736. Interest and Task Group Convener Discussion with the Executive</i>	
16.30				
16.45				
17.00				
17.15				

Friday 31 October				
	Rydbergsalen	Rum 10	Rum 11	Rum 12
8.30	TDWG Business Meeting 8.30-9.30			
8.45				
9.00				
9.15				
9.30	Reports from Interest & Task Groups			
9.45				
10.00				
10.15				
10.30-11.00 AM Break, Coffee at Elmia CC Foyer (posters should be removed)				
11.00	Election results 11.00-11-15			
11.15	Preview of TDWG 2015 11.15-12.00			
11.30				
11.45				
12.00	Summary and closing session			
12.15				
12.30-14.00 Lunch at Elmia CC				

Posters

Elmia CC Foyer

Joseph Lebel Tamesse, Mveyo Ndankeu Yves Patric, Dzokou Victor Joly, Yana Wenceslas, Eliane De Coninck 558. Biodiversity of Jumping plant-lice of Psyllidae family from Cameroon

Martin Kalfatovic, Carolyn Sheffield, William Ulate, Connie Rinaldo, Grace Costantino 565. Digital Object Identifiers (DOIs) for the Biodiversity Heritage Library

Eric Moise Bakwo Fils, Jean Michel Takouo, Joseph LeDoux Diffo 571. Preliminary notes on the bat fauna of the floodplain of the far north region of Cameroon

Aaike De Wever, Astrid Schmidt-Kloiber, Sylvain Renaudier, Michel Kapel, Robert Vogl, Koen Martens 581. Centralising thematic (freshwater) biodiversity data using the Darwin Core standard and GBIF's Integrated Publishing Toolkit (IPT)

Bart Aelterman, Kevin Azijn, Peter Desmet 595. LifeWatch INBO: building a terrestrial and freshwater observatory in Flanders, Belgium

Jargy Kambale Soheranda 606. Biodiversity and sustainable conservation of the fish fauna and fisheries of the Congolese waters of Lake Albert

Julien Husson 612. Rendering value to over 350 years of natural history collections: e-ReColNat a digital platform for the environment and society

Larissa Smirnova 620. Helpdesk and training facilities at the Royal Museum for Central Africa, now EU BON oriented.

Franck Theeten, Marielle Adam, Paul-André Duchesne, Yann Chambert, Cathy Emery, Philippe Vignaux, Son Du, didier Van den Spiegel 626. DaRWIn (Data Research Warehouse Information Network)

Samuel Christian Tsakem, Martin Tchamba, Robert Bertrand Weladji 630. Abundance and habitat use by gorillas (*Gorilla gorilla gorilla*) in the Lobeke National Park (Cameroon) and Implications for conservation

Dag Endresen, Christian Svindseth, Einar Timdal, Eirik Rindal 634. Crowdsourcing portal for transcription of label information for Norwegian natural history collections

Philip Goldstein 638. OBIS-USA Marine BioGeography Extensions in United States Government Science Context; Biodiversity Goals in Regulation, Monitoring, Response, Economic Activity, Education, and Research

Tero Mononen, Riitta Tegelberg, Mira Sääskilahti, Markku A. Huttunen, Marko Tähtinen, Hannu Saarenmaa 647. DigiWeb – quality driven workflow environment for digitisation of natural history specimens

Wouter Addink, Maarten Schermer, Huub Veldhuijzen, Peter Schalk, Maarten van der Velde 651. **Linnaeus Next Generation for species information and identification**

Jeroen Snijders, Wouter Addink, Daphne Duin, Ayco Holleman, Wilfred Gerritsen, Ruud Alternburg, Maarten van der Velde 653. **Project Bio-API**

Sunil Thorat 665. **Biodiversity documentation with global sharing standards**

Markus Skyttner, Kevin Holston, Ida Li, Ingimar Erlingsson, Stefan Daume, Karin Karlsson, Fredrik Ronquist 666. **The DINA consortium**

Léo Valette, Shiv Kumar Agrawal, Ramaiah Bhavanasi, Antonio Lopez-Montez, Sidibe Mamourou, Praveen Reddy Teegala, Trushar Shah, Gilles Trouche, Kirsten vom Brocke, Jean-François Rami, Eva Weltzien, Karthika Rajendran, Harold Durufle, Marie-Angélique Laporte, Luca Matteis, Elizabeth Arnaud 675. **The Crop Ontology: Integrating the Participatory Variety Selection (PVS)**

Marie-Elise Lecoq 677. **Crowdsourcing going open source, an opportunity for sister websites**

Falko Glöckler, Alexander Kroupa, Daniel Zitterbart, Thomas Uher, Marco Uher, Gregor Hagedorn 681. **The generic citizen science biodiversity data application 'anymals + plants'**

Robert D. Stevenson, Rafer Dannenhauer 696. **Predicting local species lists: an example and a challenge**

Veljo Runnel 709. **Citizen Science, biodiversity and data management – EU BON perspective**

Marko Peterson, Urmas Kõljalg, Kessy Abarenkov, Veljo Runnel, Allan Zirk 710. **eBiodiversity – web portal for Estonian biodiversity data**

Vincent Rolland, Aurélie Froger, Frédéric Lison, Florian Causse, Grégoire Lois, Mathieu de Flores, Visotheary Ung, Régine Vignes Lebbe 713. **Towards a learning process to improve a free access key in a citizen science program**

Marcia Chame, Livia Abdalla, Eduardo Krempser, Edmar Moretti 720. **Mitigation of data positioning errors in the modelling of ecological opportunity for the occurrence of diseases in the Wildlife Health Information System – SISS-Geo**

Soili Stenroos, Vanamo Salo, Hanna Koivula, Dmitry Schigel 765. **Collecting ideas: We are making an e-book**

Posters may be hung starting Sunday afternoon with registration and should be removed on Thursday afternoon at or after break.

Acknowledgements

Committees

Program Committee Members

Gail E. Kampmeier, Past Program Chair – University of Illinois, U.S.A.
Patricia Mergen, Royal Museum for Central Africa, Belgium
Cynthia S. Parr, Program Co-Chair, National Agricultural Library, U.S.A.
Anders Telenius, Program Chair, Swedish Museum of Natural History, Sweden
William Ulate, Missouri Botanical Garden, U.S.A.

The Program Committee wishes to thank all of the symposium and workshop organizers for their help in bringing together a stimulating program for this conference.

Local Committee Members

Anders Telenius, Swedish Museum of Natural History, Sweden
Christina Frisk, Elmia Congress Centre, Jönköping, Sweden

TDWG 2014 also gratefully acknowledges

- GBIF-Sweden ([GBIF](#) - Global Biodiversity Information Facility) for Anders Telenius' participation in the Program and Local Committees,
- the Swedish Museum of Natural History ([Naturhistoriska Riksmuseet](#)) for hosting pre-conference activities
- Destination Jönköping ([Destination Jönköping](#)) for the conference logo created by Deniése Thorvaldson
- Jönköping municipality ([Jönköpings Kommun](#)) for hosting the reception on Sunday 26 October
- JRS Biodiversity Foundation ([JRS Biodiversity Foundation](#)) and Belgian Cooperation ([The Belgian Development Cooperation](#)) for travel grants to several conference delegates
- the [Missouri Botanical Garden](#) for contributing their Open Conference System



Maps of Elmia Congress Centre (entrance at red arrow: “6 Konferens”)



