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für Sukkulenten-Forschung

IOS

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Front cover: *Aloe marlothii*
(photo: David Hunt)

This issue of IOS Bulletin compiled and edited by the Secretary

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Message from the President

It is a great honour and an enormous privilege to have been designated President of the IOS for the biennial 2012–2014. I would like to express my sincere appreciation to my immediate predecessor, Prof. Len Newton, who was President of our organization during three terms (2006–2012). I would like to acknowledge that thanks to Prof. Newton's enthusiastic leadership, the IOS experienced substantial improvements in its projects and internal organization. Furthermore, I would like to thank the members of the Executive Board – David Hunt (Secretary), Sara Oldfield (Treasurer) and Rainer Mecklenburg (Assistant Secretary), who are still in office, for their contributions to the IOS. Also, I am extremely happy to welcome our new Vice-President, Dr Ulrich Meve, who is an active lecturer and researcher at the Department of Plant Systematics, University of Bayreuth, Germany.

I would like to express my congratulations to Dr Heidrun Hartmann who was unanimously nominated by the IOS Board to be the recipient of the 2012 *Cactus d'Or* Award, given by the IOS on behalf of the Principality of Monaco. Heidi, who currently is an external researcher at the University of Hamburg, is being recognized for her lifetime achievements in succulent plant research, particularly Aizoaceae, and her contributions to the IOS as a Board member for several years.

This year the 32nd IOS Congress took place in Havana, Cuba, on July 2–6. On behalf of the Board, I would like to thank the authorities of the Jardín Botánico Nacional de Cuba, and especially the members of the local Organizing Committee, Luis Roberto González, Alejandro Palmarola, Lenia Robledo and Duniel Barrios, for their hard work during the organization of the Congress.

The organization of the 10th IOS Inter-Congress to be held on 9–12 May 2013 in Berlin is in progress. This will be organized in conjunction with the traditional Berliner Kakteentage, and our Secretary has recently been in close contact with members of the Botanical Garden in Dahlem in order to discuss the details of the event. Regarding the 33rd IOS Congress in 2014, the Board is working to establish the most suitable venue, and members will be informed as soon as a decision is made.

Currently, one of the most prominent features of the IOS is its website, redesigned in 2009 and generously maintained by Rainer Mecklenburg and his wife Ingrid. The website is an exceptional communication instrument that should be permanently updated and improved according to the latest technological developments. It is an excellent tool to implement the IOS goals “to promote

the study and conservation of succulent and allied plants and to encourage international collaboration amongst those interested in them”.

In my view, there are two main areas where IOS could work during the following years in order to make progress towards the fulfilment of its mission. The first one is to expand its Research Fund by increasing in any possible way the resources allocated to support qualified research and conservation projects. On the other hand, I find it necessary to enhance the IOS international character, by increasing the proportion of members from areas with a high diversity of succulent plants (e.g., South Africa, México, Brazil, Chile, Bolivia, and Argentina). Examination of the members list reveals that the vast majority of members (71%) are from Europe, whereas only a few come from other regions (Africa, 4%; Latin America, 13%). In fact, only a minority of our members come from countries with a high diversity of succulent plant species, such as México (4%) and South Africa (2%). I am convinced that researchers and amateurs from these regions have much to contribute to the progress of our organization.

I wish that all IOS members will feel free to contact me or any other member of the Executive Board with suggestions and ideas regarding the projects and activities of our organization.

Héctor M. Hernández



Message from the Vice-President

With the elections to the board held at the Plenary Meeting in Havana (Cuba), I became your new Vice-President of the IOS. Not all members will know (about) me, since I do not belong to the Cactaceae group of members, which is still the predominant fraction of our organization. Born 1958 in Neumünster (Schleswig-Holstein, Germany), I started my scientific career with the diploma thesis studies (in biology) at the University of Kiel – home of well-known former succulent researchers like O. Schwantes and H. Jacobsen. I continued at the University of Münster, where I did my PhD in 1991 under the supervision of Focke Albers, a former Vice-President of IOS, with monographic studies of the stapeliad genera *Piarranthus* and *Duvalia* (Apocynaceae-Asclepiadoideae-Ceropegieae). Following a postdoc in Münster which was also used for the completion of the major works on the “Illustrated Handbook of Succulent Plants (Asclepiadaceae)”, I moved to Bayreuth University to take over a position as Assistant Professor (Hochschulassistent) at the Dept. of Plant Systematics (Head: Sigrid Liede-Schumann). Since 2002 I am on tenure in Bayreuth. My habilitation in Botany dealt with phylogenetic and taxonomic studies in the tribe Ceropegieae. Apart from the stem-succulent stapeliads, I am especially

attracted by the diverse genus *Ceropegia* and its fascinating pitfall flowers, where I am actually continuing with work more on reproductive biology incl. pollination than on systematics. Of the succulent representatives of Asclepiadoideae, *Sarcostemma* (now part of genus *Cynanchum*) was repeatedly in focus of my works (in cooperation with S. Liede-Schumann). However, I am not exclusively a succulent person. In asclepiads, I am also working phylogenetically and taxonomically in herbaceous groups of the New World like the small-flowered twiners of *Metastelma*, *Jobinia* and *Orthosia*. Additionally, some works dealt with Aizoaceae, Geraniaceae and Rubiaceae. Beyond that, I am engaged in the survey of our regional/local flora – activities equally pertaining to my herbarium work, because I am in charge of the Herbarium of the University of Bayreuth (acronym: UBT).

As Vice-President I will support as much as possible the new President and the Secretaries. Serving the members in the different aspects of studying succulents as well as bringing them together, will be central in my engagement. Most important for me, however, IOS must continue in future as *THE* home for people devoted to study succulents all over the world, independent from the subject or plant family studied.

Ulrich Meve

**10th IOS Inter-Congress Meeting, Berlin, 10–12 May 2013
to be held at the Botanical Garden and Museum, Berlin-Dahlem,
by courtesy of the Director, Professor Dr Thomas Borsch**

*To include the annual meeting of the IOS Executive Board, lecture/seminar sessions
and a tour of the newly erected glasshouses for succulent plants.*

*The meeting is being held in conjunction with the biennial Berliner Kakteentage and Exhibition
(9–12 May) and the annual meeting of EPIG (Interessengemeinschaft Epiphytische Kakteen).*

All IOS members are cordially invited!

For further details and Preliminary Registration and Accommodation, see back cover



New accommodation behind the scenes for succulents at the Berlin-Dahlem Botanical Garden

David Hunt

Proceedings of the IOS 32nd Congress, Havana, 2–6 July 2012

Note: An 80-page Programme & Abstracts booklet, also including Summaries for Posters, and a Guide to the mid-Congress Field Trip was prepared for Congress Participants by the local Organizing Committee and printed (on recycled paper) by the Oficina del Historiador, Ciudad de Habana

The complete contents of this booklet including colour illustrations are available 'open-access' on the IOS website. Only the programme, list of participants, and reports of the IOS Board and General Meeting of Members are given in this Bulletin. An illustrated account of the Post-Congress Tour by Fred Kattermann is to be published in the Cactus & Succulent Journal (Los Angeles)

PROGRAMME

(Names of speakers are listed in bold italic print)

Monday 2 July (Lecture Room at Hotel Ambos Mundos)

13:00 – 17:00 Registration (continued on Tuesday 3 July 08:30 – 09:20)

13:00 – 14:30 Mounting posters

15:00 – 16:30 Private meeting of IOS Executive Board

Tuesday 3 July

09:30 – 10:00 **Opening session** (Aula Magna Colegio de San Gerónimo, Universidad de La Habana)
Welcome by *Angela T. Leiva* (*Director, National Botanic Garden CU*)
Welcome and Opening of Congress by the President, *Professor Leonard Newton*

10:00 – 10:30 **Ecology and Evolution of cacti: What do we know?**
Alfonso Valiente-Banuet (MX)

10:30 – 10:50 Break

10:50 – 13:05 **Session 1. Conservation** (Lecture room at Hotel Ambos Mundos)
Chairman: Angela T. Leiva

10:50 – 11:10 **Enhancing *ex situ* conservation of cacti and other succulents through international collaboration**
Sara Oldfield (GB)

11:10 – 11:30 **The US National Collections of Cactaceae and Agavaceae at the Desert Botanical Garden**
Raúl Puente-Martínez (US)

11:30 – 11:50 **What phylogeography can tell us about conservation of Mexican Cactaceae**
Héctor Hernández & Carlos Gómez-Hinostroza (MX)

11:50 – 12:10 **Seven steps for developing an integral cacti conservation model in the semi-desert Queretano-Hidalguense, México**
Emiliano Sánchez, María Magdalena Hernández, Beatriz Maruri, José Hernández & Ruth Chávez (MX)

12:10 – 12:30 **An action plan for the conservation of Cuban cacti**
Luis Roberto Gonzalez-Torres, Alejandro Palmarola & Duniel Barrios (CU)

12:30 – 12:50 ***In situ* analysis of the current conservation status of *Mammillaria herrerae* in the Southern Chihuahuan Desert**
Beatriz Maruri, Emiliano Sánchez & José Hernández (MX)

- 12:50 – 13:05 General discussion
- 13:05 – 14:05 Lunch
- 14:20 – 15:15 **Session 2. Molecular Biology, Physiology and Morphology**
Chairman: Rosalina Berazain
- 14:20 – 14:40 **Succulence in *Tillandsia* (Bromeliaceae) occurring in Cuba**
Lucia Hechavarria (CU?)
- 14:40 – 15:00 **Wood anatomy of Cuban species of *Leptocereus* (Cactaceae)**
Alina Cuza Pérez & Duniel Barrios Valdés
- 15:00 – 15:15 General discussion
- 15:15 – 15:30 Break
- 15:30 – 17:30 Poster Session
- 16:00 – 17:00 **General Meeting of IOS Members** (*for IOS members only*)
- 18:00 – 19:30 Welcome concert at Oratory San Felipe de Neri
- 20:00 – 21:00 Welcome dinner at the Roof Garden, Hotel Ambos Mundos

Wednesday 4 July

- 09:00 – 12:10 **Session 3. Systematics, Phytogeography and Evolution**
Chairman: Len Newton
- 09:00 – 09:20 **Pre-Columbian Agaves in the Southwestern United States: a new way of looking at species and their landscapes**
Wendy Hodgson & Andrew Salywon (US)
- 09:20 – 09:40 **Phylogenetic analysis of Portulacineae from whole chloroplast genomes and insights into the diversification of major succulent lineages**
Monica Arakaki, Pascal-Antoine Christin, Reto Nyffeler, Anita Lendel, Urs Eggli & Matthew Ogburn
- 09:40 – 10:00 **Phylogenetic relationships in the “Villadia group” (Crassulaceae)**
Pablo Carrillo-Reyes & Victoria Sosa (MX)
- 10:00 – 10:20 **Cactaceae: a cladistic approach to define species in the genus *Copiapoa***
Fred Kattermann (US)
- 10:20 – 10:35 Break
- 10:35 – 10:55 **The family Crassulaceae in the Eastern Europe and Caucasus**
Vyacheslav V. Byalt (RU)
- 10:55 – 11:15 **Use of morphological criteria of seeds in the systematics of the genus *Gymnocalycium* (Cactaceae)**
Vladimir Pankin (RU)
- 11:15 – 11:35 **Succulent plants of India**
Majeti Prasad (IN)
- 11:35 – 11:55 **A new species**
Rudi Fink (DE)
- 11:55 – 12:10 General discussion

- 12:10 – 13:10 Lunch
- 13:20 – 18:00 Visit to the National Botanic Garden, Cuba
(Meeting point: Lobby of Hotel Ambos Mundos)
- 14:35 – 14:45 **Welcome and introduction to the National Botanic Garden, University of Havana**
Angela T. Leiva (Director)
- 14:45 – 15:15 **Flora and vegetation of Cuba**
Rosalina Berazain
- 15:15 – 15:35 **Succulent plant diversity of Cuba**
Ramona Oviedo, Juan A. Hernández & María A. Castañeira
- 15:35 – 16:00 Break
- 16:00 – 18:00 Guided tour (ending at the greenhouses)
- 18:00 – 18:30 Free
- 18:30 – 20:00 Traditional dinner at the restaurant ‘El Ranchón’ in the Pine Forest display
(5 minutes walking from the greenhouses)
- 20:00 Return to hotels (Meeting point restaurant ‘El Ranchón’ in the Pine Forest display)

Thursday 5 July

- 08:00 **Mid-Congress fieldtrip** (Meeting point: Lobby of Hotel Ambos Mundos)
- 09:30 – 11:30 Tres Ceibas de Clavellinas (serpentine thicket)
- 12:50 – 13:50 Varahicacos (tropical dry forest)
- 14:00 – 15:00 Lunch at Plaza America, Varadero
- 15:00 – 16:50 **Free**
- 17:00 Meeting point: parking area of Plaza America
- 18:30 – 19:00 Vacunayagua
- 19:00 – 20:00 Return to Havana

Friday 6 July

- 09:00 – 11:30 **Session 4. Ecology** (Lecture room at Hotel Ambos Mundos)
Chairman: Héctor Hernández
- 09:00 – 09:20 **Reproductive biology of *Cipocereus minensis minensis* and *Cipocereus crassisepalus*: cacti species endemic from the “Espinhaço Mountain Range” in southeastern Brazil**
Yasmine Antonini, Reislá Oliveira, Juliana Pereira, Carlos Victor Mendonça Filho & Cristiane Martins
- 09:20 – 09:40 **Pollination biology of *Escobaria cubensis* (Cactaceae) as a contribution to the conservation of the species**
Alena Reyes, Pavel Noris, David Lambert & Elena Fornet
- 09:40 – 10:00 ***Ceropegia* flower scents, a case of chemical mimicry**
Annemarie Heiduk, Stefan Doetterl & Ulrich Meve
- 10:00 – 10:20 **Population structure and habitat features of *Consolea millspaughii* (Cactaceae) in Paredón Grande key, Ciego de Avila, Cuba**
Carlos J. Acevedo (CU)
- 10:20 – 10:35 Break
- 10:35 – 10:55 **Population structure, dispersal and recruitment sites of *Leptocereus scopulophilus* (Cactaceae)**
Daniel Barrios, Luis R. González-Torres & Alejandro Palmarola (CU)



Post-Congress tour participants at Los Monitongos Reserve, Guantanamo, Cuba

- 10:55 – 11:15 **Effect of fungi on seed germination of three *Opuntia* species at different light treatments**
Joel Flores, Pablo Delgado-Sánchez, Juan F. Jiménez-Bremont, & María de la Luz Guerrero-González
- 11:15 – 11:35 General discussion
- 11:40 – 12:35 **Session 5. Cultivation, Propagation and Breeding**
 Chairman: Rainer Mecklenburg
- 11:40 – 12:00 **Domestication of aloes in Kenya**
Len Newton
- 12:00 – 12:20 **Growth and survival of six cacti species from northeastern Mexico, using zeolite as substrate**
Lidia Rosaura Salas, Rahim Foroughbakhch, María de Lourdes Díaz & María Luisa Cárdenas
- 12:20 – 12:35 General Discussion
- 12:35 – 13:40 Lunch
- 14:00 – 15:30 **Session 6. Landscaping and Gardening** (Lecture room at Hotel Ambos Mundos)
 Chairman: Sara Oldfield
- 14:00 – 14:30 **Rare succulents in the garden: A Californian's point of view, with thoughts on the relationship between horticulture and conservation**
Todd Masilko
- 14:30 – 15:00 **Aloes and Agaves from wild origins to cultivation in landscape and garden settings**
Kelly Griffin
- 15:00 – 15:30 General discussion

- 16:00 – 18:00 **Old Havana Guided Tour** (*meeting point: lobby of Hotel Ambos Mundos, sponsored by San Cristobal Tour Agency*)
- 19:00 Farewell dinner at the restaurant Meson de la Flota

Congress Participants and Guests

IOS Members: Len Newton (Kenya, President), Héctor Hernández (Mexico, Vice-President/President elect), Ulrich Meve (Germany, Vice-President Elect), Sara Oldfield (Great Britain, Treasurer), Rainer Mecklenburg (Germany, Assistant Secretary), Ingrid Mecklenburg (Germany), Hans Britsch (USA), Vyacheslav Byalt (Russia), Fred Kattermann (USA), Vladimir Pankine (Russia), Holger Wittner (Germany). Institutional Member representatives: Raul Puente and Andrew Salywon (USA) (*Desert Botanical Garden, Phoenix, Arizona*).

Cuban Members of the Organizing Committee: Luis Roberto Gonzalez Torres, Alexandro Palmarola Bejerano, Lenia Robledo Ortega, Duniel Barrios Valdes

Guests (56): Cuba (19); Mexico (15); Russia (6); USA (5); Germany (3); Argentina (2); Brazil (2); Venezuela (2); Spain (1); India (1).

CONGRESS REPORTS

Report of the Annual Meeting of the IOS Executive Board, 2 July 2012

Held at the Hotel Ambos Mundos, Havana, Cuba, 2 July 2012, 15:00–16:20.

Present: Professor Len Newton (President, Chair), Dr Héctor Hernández (Vice-President), Sara Oldfield (Treasurer), Rainer Mecklenburg (Assistant Secretary). *Apology for absence:* Dr David Hunt (Secretary). *In attendance:* Dr Ulrich Meve (Vice-President elect).

1. **Agenda.** The President developed and decided the agenda.
2. **IOS 32nd Congress**
 - 2.1 The Congress was largely organized by Dr Luis Roberto Gonzales and his team of the National Botanic Garden, Havana, with administrative support of San Cristóbal travel agency, the latter providing a Cuba-based website, Congress registration and accommodation online booking modules, and airfare discounts.
 - 2.2 **Lessons learned.** The influence of the IOS Board on general framework, organisation, and programme must be ensured from the beginning to the end. With regard to an existing IOS website, the extra cost for the Cuba-based website was unnecessary. Regarding the programme, the originally envisaged time allowance of 12 minutes for presentations was too short and needed correction to 15–20 minutes.
 - 2.3 The Board decided to develop a set of rules for organizing and programming future Congresses and Inter-Congresses, including cost frames.
 - 2.4 Advance funding (GBP 1840) paid by IOS at the request of the organizers and the Congress registration fees they collected: the President would ask Dr Gonzales to present a detailed statement for the IOS records. (*Statement received 4 October 2012*)
3. **Next meetings**
 - 3.1 **IOS 10th Inter-Congress** May 2013, To be held in Berlin at the Botanical Garden and Botanical Museum, Berlin-Dahlem, in conjunction with the traditional Berliner Kakteentage. It is announced on the website and planning in Berlin is under way.
 - 3.2 **Venue for 33rd IOS Congress.** The Board welcomed a proposal by delegates from the Desert Botanical Garden to hold the Congress at the Desert Botanical Garden as part of its 75th anniversary celebrations. The preferred time would be in the months March and April ('desert in bloom'). The President would ask the delegates to arrange for the Director of the DBG to send an official invitation to the IOS Secretary. (*Received 21 November 2012*)
4. **Cactus d'Or.** In honour of her lifetime achievements in succulent plant research and her numerous publications, plus her contribution to the IOS as a Board member for several years, the Board has unanimously nominated Dr Heidrun Hartmann for this year's Cactus d'Or Award.
5. **Reports and Financial Statement.** The reports of the officers for presentation at the General Meeting of Members were reviewed.

6. **Proposal by the Asst. Secretary concerning Financial Administration.** The Board decided to condense the phrasing of the proposal and make it a Byelaw. The Treasurer expressed her reservations.
7. **Proposal by members of the Board to waive the subscription for the next Biennium.** The pros and cons of free membership were discussed and it was decided at length (1) to continue charging a membership fee (formerly called subscription); (2) to propose to the General Meeting of Members to retain the present rate of 30 Euros (or equivalent) for 2013–2014; (3) to omit para 4 of the Secretary's Report concerning the proposal of a free membership (4) to set up a membership account for online payment of membership fees as soon as possible.
8. **Travel allowances for Board Members.** The Board agreed to continue the financial support for Board members at the previous level.
9. **Review of collaborative projects supported by IOS or by IOS members.** The President addressed a draft list of collaborative projects submitted by the Secretary. A member of the Board expressed doubts as to whether all these projects could be collected under the umbrella of the IOS and whether the responsible editors would agree with this view. In project [11] IHSP-2, Dr Hartmann's invitation of IOS members on our website to participate in her volume Aizoaceae should be mentioned.
10. **Regional/National representatives.** (Statutes Art. 5.1.e.) The appointment of regional representatives was tabled for discussion. The Board was of the opinion that they are not required, since a member in one country would not be able to represent members in other countries of the whole region.

Report of the General Meeting of Members (IOS Statutes Art. 16), 3 July 2012

Held in the conference room of the Hotel Ambos Mundos, Havana, Cuba.

The meeting opened at 16:40.

1. Members present: Len Newton (President, Chair), Héctor M. Hernández (Vice-President), Rainer Mecklenburg (Assistant Secretary), Sara Oldfield (Treasurer). Hans Britsch, Fred Kattermann, Ingrid Mecklenburg, Holger Wittner, Vladimir Pankin (guest member).

Apologies for absence: David Hunt (Secretary); Ralf Bauer, Thomas Bolliger, Kirsten Burstedde, Jean-Marc Chalet, Denis Diagne, Urs Eggli, Heidrun Hartmann, Nadja Korotkova, John Lavranos, Sigrid Liede-Schumann, Joël Lodé, Harry Mays, Jafet Nassar, Ingeborg Niesler, Christiane Ritz, Boris Schlumberger, Ray Stevenson, Dieder Supthut, Emily Wabuye.

2. Obituary: Hans Till (*see p. 136*)

3. President's Report (Len Newton)

We seem to be outnumbered by non-members at this Congress, but in addressing you as IOS members I'd like to welcome you again to this 32nd IOS congress. Article 16 of the IOS Statutes deals with the General Meeting, and determines the agenda. As well as receiving reports, the meeting is an opportunity for members to discuss any matters submitted to the Board before the meeting in accordance with the above Article.

The Secretary has outlined in his report the achievements of the past two years, so I need not comment on them here. He has also compiled a list of research projects with which the IOS is associated, in some cases partly funded from the IOS research fund, Apart from revision of the *Illustrated Handbook of Succulent Plants* (originally initiated as an IOS project), at present these are all dealing with cacti. We await proposals for projects on other succulent plant families.

I must express my appreciation for the work of Rainer and Ingrid Mecklenburg in developing further the IOS website, which they rejuvenated a few years ago. Thanks also to Sara Oldfield for maintaining the link with Botanic Gardens Conservation International (BGCI). This morning she told us more about the work of the BGCI.

I should also like to thank Dr Urs Eggli for continuing to produce the *Repertorium Plantarum Succulentarum*. There seems no end in sight to the flow of new names, some arising from new discoveries, and some nomenclatural changes resulting from research. It is especially useful to have the record of new literature each year.

This is my last report as President. I must thank the Board members for their contributions to running the IOS. These days we have frequent communication through email, which helps greatly with discussion and decision-making. The composition of the Board will change after today's elections, and I wish the new Board well as they continue the work of the IOS.

4. Secretary's Report (*David Hunt in absentia; read by the President*)

Having previously spent a very enjoyable and memorable two-day stop-over in Havana 52 years ago, on my way home after nearly a year's botanizing in Belize (then British Honduras), I much regret my absence from the Congress, also that of Nigel Taylor, at whose original suggestion I initially contacted Luis Roberto, but I anticipate that after all the work he and his Committee have put in it will be a resounding success.

The past biennium has probably been as eventful as any in the previous sixty years since the foundation of IOS, with the successful development of the IOS website by Rainer and Ingrid Mecklenburg and the introduction of electronic dissemination of our two official publications, *IOS Bulletin* and *Reperitorium Plantarum Succulentarum*, as well as a successful Inter-Congress meeting in Monaco in April 2011¹. Progress with various collaborative projects under way in 2010 and others proposed since is the subject of a separate report.

Since our membership list was last published in full at the end of October 2009², the number of IOS members had risen from 152 to 167 by August 2011³. Since then three more new members have been admitted. It has to be said, however, that of the 114 'Ordinary' members (those expected to pay the biennial subscription) 41 have not yet 'paid up' for 2011–12, and 8 included in the October 2009 list have not paid since 2008⁴. Also, only a few of the mostly retired members who (so far as I am aware) do not have internet access have responded to a letter asking if they wish to continue receiving IOS publications. I regret to record the death of one of them, the Austrian specialist on *Gymnocalycium*, Hans Till, which occurred earlier this year.

5. Treasurer's Report (*Sara Oldfield*)

Draft accounts for 2010 and 2011 are presented on the following pages. They summarize (a) total subscription payments received by the four regional currency accounts; (b) payments made from the GBP account for general expenses (printing, postage, travel expenses) and project grants, the latter funded in part by (c) transfers to the GBP account from the reserve fund and Euro account. Funds received by the GBP account from the Mainz Akademie specifically to cover the expenses of the UK group contributors to Professor Barthlott's Cactaceae Mapping project and as an advance contribution to the anticipated costs of printing the eventual report, are summarized as a separate subaccount.

IOS has hitherto relied on subscription payments to finance printing and mailing its publications and other running expenses. For many years, subscriptions paid in US dollars or British Pounds were collected by one of the US or UK members and sent to the IOS Treasurer in Zurich as a lump sum to minimize bank charges. In 2007 a new regional account for Eurozone payments was established in Germany. When the reserve fund was moved to London at the end of 2009, a Postcheck account was retained in Switzerland for subscription payments by Swiss members. The financial position of IOS has remained secure and relatively stable for the past six years in spite of the very low interest rates that have denied us virtually any income to the central reserve fund. There has been a small fall of about 3% since 2005 that can easily be explained, but it might also be asked for what purpose has over GBP 50,000 been accumulated, and how should it be used now that the actual running expenses of the organization are minimal? Some of us have been hoping for several years to follow the lead of AETFAT (the *Association pour l'Étude de la Taxonomie de la Flore d'Afrique Tropicale*) by making membership of IOS free, in other words abolishing the biennial subscription altogether, at least for a trial period. Now that our running expenses are indeed minimal, this is an experiment the IOS Secretary and I feel we should try, hence the following proposal:

Proposal by members of the Board to the 32nd IOS Congress

From 1 January 2013, for a period of two years in the first instance, current members of IOS in good standing (i.e. those Ordinary and Institutional members who have paid the subscription for 2011–2012), shall not be required to pay any fee unless requiring printed copies of IOS publications. Members able and willing to donate funds to support research projects initiated or supported by IOS will be encouraged to do so. Membership for 2013–2014 shall also be free to new applicants for IOS membership who submit a formal application and CV and receive the approval of the IOS Board. Members who have not yet paid their subscription for 2011–2012 and who wish to continue their membership may be asked to pay their arrears.

Notes and references

1. IOS Bull. 15(4): 105 (2011). 2. IOS Bull. 15(2): 55 (2009). 3. IOS Bull. 15(4): 119 (2011). 4. The Board proposed (see IOS Bull. 15(1):15. 2008) that members in arrears with their payments should be regarded as 'lapsed'. A few have since paid arrears and been reinstated.

Rationale: This proposal reflects the much lower expenditure incurred biennially by IOS now that its regular publications are distributed electronically to the great majority of its members. Making membership free-of-charge to approved applicants may also make membership more attractive to appropriate individuals and institutions, as well as much reducing the administrative burden currently borne by the Secretary and Treasurer. *N.B.:* As in the past, a Registration Fee would be payable by members attending IOS meetings to help cover organizational costs

6. Assistant Secretary's Website Report. (Rainer Mecklenburg)

Continuing the implementation of the website concept, priority was given to a faster information of members with the ultimate aim to achieve an effective two-way communication. The menu point *News* (inserted early last year into the *Members only* section) was a starting point. This way, all members can be kept up-to-date if they just pay a regular visit to this page – from where they will also be directed to other important pages when applicable. A growing number of visits suggested that the *News* page was well received. However, an also growing number of requests for the website access code indicated that misplaced passwords prevent regular visits. Therefore we sent the access code again to all members in December 2011 and also took the opportunity to inform about the *News* page and other recent developments of the website. Since then the number of visits to the members section has more than doubled.

Unfortunately the IOS Forum did not yet trigger the expected interest. In view of the low number of registrations and the non-existing inclination to use it as a management tool, its further expansion was not yet pursued. However, I emphasize again its overall importance not only as a platform for a two-way communication but also as an effective means of organization, e.g. the planning of meetings and Congresses. I would like to reiterate that our analyses for re-designing the website in 2009 had revealed that a functioning internal exchange of thoughts is as important as the external presentation of IOS. The decision to take-on the re-design was and is based on this concept.

Another priority has been the *Directory of Specialists*. Proposed in 2007, it has not yet made progress. The possibility of compiling an interim list derived from the *Bibliographia* section of *Repertorium Plantarum Succulentarum* has recently been discussed by the IOS Secretary with the Director of the Zurich Succulent Collection.

As an intermediate substitute for the directory, we have started adding links to members' homepages in the password protected *List of Members*. We hope this will indeed serve two purposes. Many of us don't know each other personally, which applies especially to our so-called amateur members. To remedy this situation, we think it is adequate to include more information about background, interests and specialization in the membership list in form of a professional CV or a personal profile. To support realization, we have asked members to provide text and images to our Webmaster who has offered to draft pages with individual profiles. As of today, 14 members responded by providing links, CVs, and publication lists.

Also intended are pages for *special interest groups*. Dr Heidrun Hartman has provided the first contribution to this long-desired option with a 'state of the art' summary of the Aizoaceae family. For the time being, this section is part of the non-public pages but we wish to make *Special Interest* publicly accessible as soon as we have some more summaries of other families.

Outlook. The further development of the Forum will be picked up again. We have started structuring it into Categories and sub-levels as likely needed to stimulate its use as a discussion platform. A vote module is ready to be activated in case fast decisions are needed from members. Also, a content management system has been developed ready to be used for collaborative work amongst members, e.g. the Reserve Collections Initiative. We invite all members again to present an overview of the current state of research and conservation in their special field of interest. These précis may also provide some guidance for potential participation in research and conservation. We repeat our offer to assist your creation of an individual website or member profile. Last not least we repeat our request to provide photos to improve your IOS website.

7. Cactus d'Or. The President announced that Dr Heidrun Hartmann has been nominated for the 2012 *Cactus d'Or* Award to honour her lifetime achievements in succulent plant research. This Award is offered biennially by the Mairie de Monaco to a nominee chosen by the IOS Executive Board and is presented at the Jardin Exotique de Monaco the following year.

8. Election of Executive Board 2012-2014 (see IOS Statutes Art. 11)

Nominations received: President: Dr Héctor Hernández (Mexico). Vice-President: Dr Ulrich Meve (Germany). Treasurer: Sara Oldfield (Great Britain). Asst. Secretary: Rainer Mecklenburg (Germany). The General Meeting voted on the nominations separately. All nominees were elected with the abstention

IOS Accounts for the Year ending 31 December 2010
Summary Statement of Income, Expenditure and Balances

Central Reserve Fund (HSBC a/c opened 07/12/2009)

	GBP
Deposits	45206.06
Less bank charges	16.00

Balance b/f 01/01/2010	45190.06
Interest received	17.85
Balance c/f 31/12/2010	45207.91

Regional currency accounts

British Pounds (Account Holder: The Secretary)

Main account

	GBP
Income	
US \$379 (cash)	253.63
€ 926.80 (cash)	847.52
Subscriptions (7)	232.07
Rep. Pl. Suc.	114.00
Research donations (UK)	775.00

Total	2222.22
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Expenditure

*Printing***

IOS Bull. 15(2)	130.00
Postage (Bull+RPS 59)	189.35
Board travel (Oldfield)	130.00
Travel grant (Nassar)	569.83
Charles refund	96.00
Postage**	209.45

Total	1324.63
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**Note: Payment of GBP 400 for printed copies of RPS 60 and GBP 162 for digitally printed copies of IOS Bull. 15(3) was made January 2011. These amounts will be included in the account for 2011.

Biomaps Project subaccount (2009–2010)

Contribution from Akad. Mainz (€ 4000) towards travel and accommodation expenses incurred by IOS group:

Initial transfer (2009)	1742.92 (€ 2000)
Balance (2010)	1755.93 (€ 2000)

Total	3498.85
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Expenses paid:

accounted 2009 a/c	195.00
also incurred 2009	1687.41
incurred 2010	1616.44

Total	3498.85
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Advance (11 Oct 2010) from Akad. Mainz for estimated 50% of printing costs

3348.68 (€ 4000)

	GBP
Reconciliation with main a/c	
Balance brought forward 31/12/09	2387.96
Less Biomaps subvention 2009 (<i>net</i>)	1547.92

Net balance 31/12/09	840.04
Income – Expenditure 2010	897.59

Net balance 31/12/10	1737.63
Advance for printing costs	3348.68

Balance carried forward 31/12/10	5086.31
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Euros (Account holder: Dr R. Bauer, Offenburg)

	Euros
Income	
Subscriptions (12)	572.31
Rep. Pl. Succ.	1466.00

Total	2038.31
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Expenditure

Bank charges	28.80
Asst. Sec. trav. exp.	340.00
Transfer to Biomaps a/c	2000.00 [<i>see Note below</i>]

Total	2368.80
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Balance brought forward 31/12/09	5821.16
Income – Expenditure 2010 (deficit)	(330.49)
Balance carried forward 31/12/10	5490.67

Note: Balance of grant from Akademie Mainz specifically for the BIOMAPS project (expenses in connection with workshops at Bonn and in the UK (*see Biomaps subaccount*)).

US Dollars (Account holder: Dr R. Dorsch, Houston)

	US\$
Income	
Subscriptions (6)	358.00

Total	358.00
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Expenditure

Total	0.00
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Balance brought forward 31/12/09	1733.00*[2]
Income – Expenditure 2010	358.00
Balance carried forward 31/12/10	2091.00

*[2] A subscription payment of \$110 paid in 2008 was mistakenly re-included in the account for 2009, so the balance b/f from 31/12/09 must be reduced by \$110 from \$1843 to \$1733 [DH]

Swiss Francs (Account holder: D.J. Supthut)

Statement by D. Supthut dated 6 June 2011

	CHF
Income 2010	
Subscriptions and arrears:	520.00
Donation (D. Supthut)	100.00

Total	620.00
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Expenses 2010

Board (Nyffeler)	200.00
Bank charges	36.00
Sundries	3.00

Total	239.00
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Balance b/f 01 Jan 2010:	1124.74
Surplus	381.00
Balance c/f 31 Dec 2010	1505.74

IOS Accounts for the Year ending 31 December 2011
Summary Statement of Income, Expenditure and Balances

Central Reserve Fund
(HSBC a/c opened 07/12/2009)

	GBP
Interest received	17.74
Expenditure	
IOS-BGCI Collections survey	960.00
Transfer to UK account	437.00
<hr/>	
Total	1397.00
Balance b/f 01/01/2011	45207.91
Expenditure <i>less</i> interest received	1379.26
Balance c/f 31/12/2011	43828.65

Regional currency accounts

British Pounds (Account Holder: Dr D.R. Hunt)

Income	GBP
Subscriptions (13)	359.16
Rep. Pl. Suc.	129.52
Tfr from € a/c for grants	1280.63**
Tfr from IOS HSBC a/c	437.00
<hr/>	
Total	2206.31

Expenditure	
IOS Bull. 15(3)*	162.00
RPS 60*	400.00
Board (Newton)	254.33
UBA Grant	651.84**
IOS Bull. 15(4)	142.00
<hr/>	
Total	1610.17

*Postage totalling 51.29 to be debited to the account for 2012. Also cost of paper copies of RPS 61.

**Grant to IMBIV to be paid in 2012

Biomaps Project subaccount (2010–2011)
 No transactions during year

Balance brought forward 1/1 2011	3348.68
Balance carried forward 31/12/2011	3348.68

Reconciliation with main a/c

Balance brought forward 31/12/10	1737.63
Income – Expenditure 2011	596.14
Balance Biomaps subaccount	3348.68
<hr/>	
Balance carried forward 31/12/11	5682.45

Swiss Francs (Postcheck account)

Statement by D. Supthut (e-mail dated 6 June 2011):
 “Payments for IOS came 2011 not in.”

Statement by D. Supthut (e-mail dated 22 April 2012):
 “I handed over the PC account to René Deubelbeiss on 30/12/2011.” [= GBP 1014.48]

Euros (Account holder: Dr R. Bauer, Offenburg)

Income	Euros
Subscriptions (29)	1120.00
Rep. Pl. Suc.	12.00
Paypal	0.18
<hr/>	
Total	1132.18

Expenditure	
Bank charges	27.35
Asst. Sec. trav. exp.	156.00
Transfer to UK a/c	1500.00 [1]
<hr/>	
Total	1683.35

Balance brought forward 31/12/10	5490.67
Income – Expenditure 2011 (deficit)	(551.17)
Balance carried forward 31/12/11	4939.50
	[= GBP 3997.41]

[1] for Grants to UBA and IMBIV to be paid via the UK a/c.

US Dollars (Account holder: Dr R. Dorsch, Houston)

Income	US\$
Subscriptions (4)	220.00
<hr/>	
Total	220.00

Expenditure	
Total	0.00

Balance brought forward 31/12/10	2091.00
Income – Expenditure 2011	220.00
Balance carried forward 31/12/11	2311.00
	[= GBP 1504.23]

Total IOS funds (net of Biomaps funding) based on exchange rates at 4 June 2012: GBP 51664.06

Note: The accounts for 2010, 2011 and 2012 will be audited and certified in accordance with usual practice prior to the Inter-Congress meeting in Berlin, May 2013.

of the nominee. No nomination for the office of Secretary having been received, the present Secretary had indicated his willingness to continue in the position for the time being. The President therefore nominated Dr David Hunt for the office of Secretary. Dr Hunt was elected unanimously.

9. Election of Auditors. Fred Kattermann and Holger Wittner agreed to audit the IOS accounts.

10. Membership fee

The President informed those present about the termination of the subscription fee and its replacement by a membership fee (see Minutes of the Executive Board meeting, minute 7). He proposed a biennial membership fee of 30 EUR (or equivalent) for the period 2013–2014, which was accepted unanimously.

11. Future meetings. The IOS 10th Inter-Congress will take place in May 2013 in Berlin, at the Botanical Garden & Botanical Museum, Dahlem. It is announced on the website and planning in Berlin is under way. For the 33rd IOS Congress, an invitation by the Desert Botanical Garden to Phoenix/Arizona is pending. Such an invitation would be welcomed by the members present. The preferred time would be the months of March or April.

The President-elect thanked Len Newton for his 6-year term as President. The meeting closed at 17:50.

Secretary's Notes

Obituaries

MGR ZOFIA KABIESZ (8 April 1922–19 November 2011), founder (1966) and long-serving President of the Polish C&SS (PTMK). She taught German, English and French at the School of Foreign Languages in Katowice. Admitted to IOS membership in 1974, she attended the Congresses at Santa Barbara and elsewhere and made several trips to see cacti in their natural surroundings. At her invitation, members of the IOS Board travelled to Poland in June 1976 to lecture at a PTKM symposium marking the 10th anniversary of the Society, where they also met enthusiasts from Czechoslovakia, the DDR and Hungary (IOS Bull. 3(5): 145, 146. 1976).

JOHANN ANTON (HANS) TILL (16 December 1920–24 January 2012), horticulturist and *Gymnocalycium* specialist, was born in Romania but settled in Austria after the 1939–45 war. An IOS member from 1982, he was named an Honorary Member of the Gesellschaft Österreichische Kakteenfreunde in 2010 and is commemorated in *Gymnocalycium tillianum* and *Pilosocereus tillianus*.

Review of current projects associated with IOS

Some of these have previously been reported in IOS Bull. 15(2) following the 8th IOS Inter-Congress, Nees Institute for Plant Diversity, Bonn, May 2009.

The review on the following pages (which may be incomplete) lists a dozen current projects that can be said to serve the statutory aims and objectives of IOS and that involve the voluntary collaboration or participation of individual IOS members. The list includes projects that have originated in, or been stimulated by, discussion during IOS meetings and others that have received or been offered modest financial support from IOS. Their progress may therefore be of interest to the membership as a whole, and perhaps the wider scientific community. In view of the preponderance of projects relating to the Cactaceae, it is good news that Springer Verlag have invited Dr Eggl to proceed with the compilation of a new edition of *The Illustrated Handbook of Succulent Plants* (see para. [6] below).

[1] **IOS Repertorium Plantarum Succulentarum**

A short history of this publication, launched shortly after the foundation of IOS itself, is given on the inside cover of recent issues. From the outset, it has been jointly edited by IOS members and published by or on behalf of IOS. Since the retirement of Gordon Rowley in 1983, Dr Urs Eggli (Sukkulenten-Sammlung Zürich) has been principal compiler. With the advent of computers the content of earlier issues was databased, making it feasible to produce and publish consolidated indexes of cactus and other succulent names included in the first 41 issues. Publication of further such volumes to cover subsequent issues is now being discussed, The possibility of using entries in the '*Bibliographia*' section as the basis of a *Directory of Specialists* is also being considered.

[2] **IOS and Conservation**

The main theme of the 12th IOS Congress (Reading, GB, 1973) was *Conservation*. It was held shortly after the United Nations Stockholm Conference on the Environment and the Washington Conference that set up the CITES convention, and resulted in several IOS initiatives (see IOS Bull. 3(3): 49–50. 1974, and the Supplement 'Succulents in Peril', 1974). First, the setting up of a Conservation Committee. This fulfilled the first part of its remit by devising the original version of the IOS Code of Conduct (IOS Bull. 3(4): 128–129. 1974). The Committee was eventually taken under the wing of the IUCN Species Survival Commission as a Specialist Group, but retains a placental connection with IOS as the present President of IOS and a former Secretary are its Chair and Secretary respectively.

[3] **Partnership with BGCI and Collections Survey**

Whereas the main emphasis of conservation measures, including the IOS Code of Conduct, has for many years has been *in situ* conservation, the second part of the Conservation Committee's remit was to promote *ex situ* conservation by enhancing the conservation value of living collections in Botanic Gardens and private collections. The Committee was charged with elaborating new criteria (in practice a new Byelaw) for what had been recognized as 'Protective' Collections. These were duly presented to the 13th Congress (Santa Barbara, USA, 1974) and approved. Article 2 of the IOS Statutes was also amended to include 'the compilation of a register of important collections of living plants' (IOS Bull. 3(4): 121. 1975; l.c. 3(6): 177, 180–181. 1977). The IOS Board subsequently appointed a Reserve Collections Committee (IOS Bull. 3(5): 146. 1976), which drew up and circulated a questionnaire to potential contributors (l.c. 151–152). Responses generated a 'Preliminary Edition' of the proposed Register (IOS Bull. 3(8): 239–268. 1979) but, regrettably, resources to maintain and develop the initiative were not available and it was destined to be comatose until 2007. An attempt to revive it, and a request that year from the National Botanic Garden of Belgium for a review of their cactus collection, led to discussions after the IOS Inter-Congress 2009 between IOS and Botanic Gardens Conservation International (BGCI, founded 1987, "the world's greatest force for plant conservation"). An agreement for BGCI and IOS to collaborate as 'Conservation Partners' was announced on the BGCI website on 14 August 2009.

With the initial objective of compiling a new register of major cacti and succulent collections worldwide, BGCI appointed a research assistant in 2011 to identify relevant institutions using the BGCI database and, if contactable by e-mail, to send them a brief questionnaire on the lines of that circulated in 1976 and then analyze the responses received. IOS agreed to contribute an initial £1000 towards the costs of the survey. Searching the BGCI database (which has details of 3000+ gardens) on the following key words in the 'special collections' field: Cactaceae, Cacti, Cactus, Succulent, Aloe, Aloaceae, Crassulaceae, Agave, Agavaceae, produced a list of nearly 300 gardens, for most of which e-mail addresses were found. Sara Oldfield (IOS Treasurer), in her professional role as Secretary General of BGCI, presented a preliminary analysis of the information obtained by July 2012 at the IOS Congress in Cuba. Ninety institutions had provided data for the purpose of the study or had uploaded relevant data to BGCI during 2010–12. Her assistant, Kirsty Shaw, now employed full-time by BGCI, continues to work on this project and is currently writing a report analysing the information provided. Downloads from the *New Cactus Lexicon* and Sukkulenten Sammlung Zürich databases have provided species lists for the cacti and 'other succulents' respectively.

[4] **CITES Cactaceae Checklist**

Following the initial discussions of the IOS Cactaceae Working Party in 1984–85, IOS was requested by the CITES Plants Committee to compile a ‘nomenclatural reference’ for the Cactaceae. Funding from CITES and the US Department of Agriculture enabled the project to get under way at the Royal Botanic Gardens Kew in 1989, and supported in part the data entry of Cactaceae names to the RPS database (*see above*) that were subsequently downloaded to the Checklist database. The first edition of the Checklist was published in 1992 and a second in 1999, both by Kew, with IOS sharing the copyright. Both editions were compiled by David Hunt with the collaboration of many IOS members and other specialists. A third edition, mainly to take account of the re-division of *Opuntia*, was proposed by the Plants Committee in 2009, but subsequently postponed. Subject to approval at the 16th Meeting of the CITES Conference of the Parties (‘CoP 16’, Bangkok, March 2013), it is now planned that a draft list for circulation to the Parties should be prepared by January 2014.

[5] **New Cactus Lexicon**

Founded on the basis of the CITES Checklist and *Das Kakteenlexikon* by Curt Backeberg (1966), this work, originally commissioned as a new edition of the latter work by its publishers Gustav Fischer Verlag Jena, was compiled and edited by David Hunt with the assistance of former members of the IOS Cactaceae Working Party (since 2000 the ‘International Cactaceae Systematics Group’) and other professional and amateur experts. Work is now proceeding on a second edition, taking account of the various molecular studies that propose changes to the classification at tribal and generic level (for comments see the ICSG bulletin *Cactaceae Systematics Initiatives* no. 26, 2012).

[6] **Illustrated Handbook of Succulent Plants**

Compilation of a new edition of Hermann Jacobsen’s single-volume *Das Sukkulentenlexikon* (the ‘Other Succulents’ equivalent of Backeberg’s *Cactus Lexicon*) was proposed by the publishers Gustav Fischer Verlag, Jena, represented by Dr Johanna Schlüter, at a meeting during the 21st IOS Congress, Zürich, in 1990. The proposal was for two volumes, one for Aizoaceae, to be edited by Dr Heidrun Hartmann and the other, for ‘the rest’ by Dr Urs Eggli. In the event, two volumes became six (two for the ‘mesems’ and four for the rest), more in the style of Jacobsen’s *Handbuch der sukkulenten Pflanzen* than his *Lexicon*. Following the demise of Gustav Fischer Verlag, the English version was published by Springer-Verlag, and the German by Verlag Eugen Ulmer. A new English edition is now proposed, to be coordinated by Dr Eggli, backed once again by the head of the Zurich Succulent Plant Collection and the administration of Grün Stadt Zürich. Dr Eggli has sought the collaboration of the original contributors, mostly drawn from the IOS membership, and Dr Hartmann invites IOS members to participate in the new edition of her Aizoaceae volumes (*see her page on the IOS website*).

[7] **Ritter’s Cacti in Colour**

A project to catalogue the herbarium material of South American cacti collected by Ritter was initiated and supported financially by IOS in 1990 and other sponsors. The massive task was successfully undertaken by Urs Eggli and the late Beat Leuenberger (Englera 16. 1996). Some years later, a large number of the illustrations published by Ritter in his monograph *Kakteen in Südamerika* (1979–81), mostly as half-tones, were recovered from the library of Mrs Else Gödde. Plans to publish many of them in colour now represent a second major phase of the ‘Ritter Project’. The slides and prints, currently in the care of David Hunt, have been scanned by IOS member Paul Hoxey, and the collaboration of Dr Eggli has been secured via an agreement with the Sukkulenten-Sammlung Zürich. Dr Leuenberger himself gave permission, some months before his untimely death in 2010, for his *Biographical Notes on Ritter*, published in the Englera volume, to be reprinted as part of the introduction.

[8] **Phylogeny of the Andean Opuntioideae**

Good progress was made with this collaborative study after its inception during the 2009 IOS Inter-Congress. Plant material and funding for laboratory consumables and sequencing were provided by UK members of IOS. The results to date have recently been published in the highly rated journal *Molecular Phylogenetics and Evolution*. The authors are Christiane Ritz (the principal researcher), Jutta Reiker;

Graham Charles, Paul Hoxey, David Hunt, Martin Lowry, Wolfgang Stuppy & Nigel Taylor. To establish new names to be used in the paper, taxonomic and nomenclatural notes were published in advance in *Cactaceae Systematics Initiatives* no. 25 (2011), including the proposed new genus *Punotia* D. Hunt. Material of *Maihueniopsis* spp. for an extension of the project was deposited at the University of Córdoba in March 2011 and arrangements were made with the Secretary of the University for IOS member Dr Las Peñas to make DNA extractions and send them to Dr Ritz for sequencing, the University's costs to be reimbursed in due course. On the basis of a budget submitted by Dr Las Peñas, the Board agreed an initial grant of US \$1000 for this work (July 2011). Sadly, the DNA samples received by Dr Ritz in May 2012 proved degraded. It is hoped that Dr Las Peñas may still be able to undertake cytogenetic studies on the samples to determine ploidy levels and obtain other chromosome data.

[9] Molecular systematics and phylogeny of *Opuntia* series *Armatae* and *Aurantiacae*

IOS member Fabián Font (Museo de Farmacobotánica, University of Buenos Aires) is collaborating with other researchers at UBA on a programme that is, in a sense, complementary to that on the Andean *Opuntioideae* mentioned above. Font's UBA colleague Dr Gottlieb subsequently applied for IOS membership (approved by the Board) and funding support for her work. The Board agreed an initial grant of US \$1000, duly transmitted to Dr Gottlieb in August 2011, to pay for "sequencing reactions, two Taq polymerases, some disposable materials (microtubes and tips) and a vectashield mounting media for DAPI-CMA fluorescent chromosome banding." In March 2012 Dr Gottlieb reported "we are writing a manuscript on the molecular results and we will soon initiate the writing of the cytogenetics results." Independently, Font himself has submitted a substantial taxonomic paper on the series *Armatae* which has been accepted for publication in *Succulent Plant Research*.

[10] Biodiversity and Biogeography of Cacti

During the 2009 IOS Inter-Congress, the New Cactus Lexicon editorial group agreed to help with the preparation of range maps of all the species recognized in the work, in collaboration with the 'BIOMAPS' group at the University of Bonn led by Wilhelm Barthlott. Consultation meetings and working sessions were then held in Bonn and Milborne Port, for which the travel costs for the NCL group participants were subsidized by a subvention through IOS from the Mainz Academy of Sciences and Literature. Comprehensive revision of the range maps by the IOS team was completed in February 2011. Later, an understanding that the work was to be published as a volume of *Succulent Plant Research* was withdrawn by the Bonn group in favour of arrangements with a commercial publisher in Germany. In June 2012, an e-mail from Professor Barthlott indicated that students funded by the Mainz Academy were doing further work on the maps and that the manuscript would 'go into print in the very near future'.

[11] Mapping the Cacti of Mexico

Following a discussion at Kew on 16 Nov 2010, Héctor Hernández took up a suggestion from David Hunt to publish the first volume of a series of distribution maps of Mexican cacti as a volume of *Succulent Plant Research*, an occasional publication originally discussed at the IOS Malta Inter-Congress meeting (1993) as a potential 'shop window' for IOS, but not officially adopted). Hunt then sought the Board's permission, during its April 2011 meeting at the Monaco Inter-Congress, to include the IOS logo on the cover of the volume alongside those of other sponsors, and this was agreed. The volume was duly published in August 2011 as *Succulent Plant Research* vol. 7. No financial support from IOS was sought or necessary, printing and shipping costs having been covered by distribution arrangements with the Mexican agency CONABIO, the Missouri Botanical Garden Press, and commercial booksellers in the USA and UK. A second volume, which will include maps of all *Mammillaria* species, is now in preparation.

[12] Taxonomy and phylogeny of the *Hylocereae* (Cactaceae)

An application for IOS funding was submitted by Professor Thomas Borsch and Dr Nadja Korotkova (Botanischer Garten & Botanisches Museum, Berlin) in November 2011 and an initial grant of Euros 1000 approved. The project got under way in May 2012 following the short-term appointment of an assistant, funded by the Friends of BGBM).

Future meetings: Preliminary announcements

IOS 10th Inter-Congress meeting 10–12 May 2013 (see back cover for details)

IOS 33rd Congress 2014

The IOS Board has received and agreed to accept an offer from the Director of the Desert Botanical Garden, Phoenix, Arizona, to host our next Congress there, provisionally in April 2014.

Membership Renewal Invitation

Fees for 2013–2014

The IOS membership fee for this two-year term is due on 1 January 2013. The basic amount for members with internet access is Euros 30.- or the equivalent in other currencies. If you need or wish to receive printed copies of the next two issues of IOS Repertorium Plantarum Succulentarum, please add the equivalent of Euros 20 to cover printing and mailing costs.

Prompt payment of subscriptions is requested, so that no reminder is necessary, and may be made any time beforehand – please don't wait till after 1 January!

Payments in Euros via Dr Ralf Bauer

Please send your payment (**30 Euros**) to Dr Bauer's IOS account as follows:

For bank transfers within Germany: Volksbank Offenburg 66490000 Konto Nr.: 9043020

For transfers from elsewhere in the Euro zone the international codes are:

BIC: GENODE61OG1 IBAN: DE20 6649 0000 0009 0430 20

When paying by bank transfer, don't forget to give your name and address for identification!

Payments in US dollars (\$40) via Dr E.R. Dorsch (e-mail: cubuff8@aol.com)

Please make checks payable to: 'Ernst R. Dorsch' (*NOT* to IOS) and mail to him at:

13011 So. Jennywood, Cypress, TX 77429-2273, USA

NB: Checks must be drawn on a clearing bank in the USA

Payments in British Pounds (£25 GBP) via Dr D.R. Hunt

Please make cheques payable to: Dr D.R. Hunt (IOS account) and send to him at:

The Manse, Chapel Lane, Milborne Port, Sherborne, DT9 5DL, UK

NB: Cheques or money orders must be drawn on a London clearing bank

Payments in Swiss Francs (CHF 36) via René Deubelbeiss (rdeubi@sunrise.ch)

Members in Switzerland may make payment in Swiss Francs. Please contact René Deubelbeiss for method of payment.

Payments by PayPal or with Credit Card via PayPal

If you wish to pay electronically via Paypal, please contact the Secretary (secretary@iosweb.org) for instructions. A supplement to cover PayPal's commission will be payable.

IOS Membership as of November 2012 (including members whose subscription for 2011–12 is overdue) totalled 167, made up as follows: Ordinary [O] 108; Emeritus [E] 26; Student [S] 14; Institutional [I] 12; Honorary [H] 5; Life [L] 2.

Membership by countries (29): Germany [DE] 34; Great Britain [GB] 28; Switzerland [CH] 17; United States of America [US] 15; Austria [AT] 10; Italy [IT] 10; Argentina [AR] 6; France [FR] 7; Netherlands [NL] 3; Mexico [MX] 6; Brazil [BR] 2; Chile [CL] 2; Kenya [KE] 2; New Zealand [NZ] 2; Peru [PE] 2; Poland [PL] 2; South Africa [ZA] 2; Spain [ES] 2; Venezuela [VE] 2; Belgium [BE] 3; Bolivia [BO] 1; Canada [CA] 1; Monaco [MC] 1; Malta [MT] 1; Norway [NO] 1; Portugal [PT] 1; Russia [RU] 1; Sweden [SE] 1; Zimbabwe [ZW] 1.

IOS Membership List 2012

Personal members: [E] = Emeritus; [H] = Honorary; [L] = Life;
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10th IOS Inter-Congress Meeting, Berlin, 10–12 May 2013
to be held at the Botanical Garden and Botanical Museum, Berlin (BGBM)
by courtesy of the Director, Professor Dr Thomas Borsch

Provisional Programme

Friday 10 May

15:00 Conducted tour of the Botanic Garden glasshouses
from 15:00 (Seminaris Hotel) Registration desk open for Members staying at the Hotel
16:00 (Seminaris Hotel) Annual Meeting of the IOS Executive Board
Evening free

Saturday 11 May

from 08:00 Registration desk open at the Botanical Museum
09:00 *Venue:* The Lecture Theatre
First session: Welcome by the IOS President, Dr Héctor Hernández
09:05–13:00 Invited Lectures (Speakers during the day are expected to include Dr Hernández, Prof. Dr Walter Lack, Dr Urs Eggli, Dr Olwen Grace, Ralf Bauer, Graham Charles, Dr Nadja Korotkova)
13:00–14:00 *Lunch interval*
14:00–approx. 17:00 Second Session (further lectures)
Evening free (A group dinner at a Biergarten near the Hotel may be arranged)

Sunday 12 May

09:30–13:00 Final session(s) at the Botanical Museum. These may include further talks, if offered, in the Lecture Theatre, and a discussion session, for IOS members only, on Cactaceae Systematics, will be held in one of the Museum's Conference Rooms.

The meeting is being held in conjunction with the biennial Berliner Kakteentage and Exhibition, staged by the Berliner Kakteenfreunde e.V., that opens on 9 May, and the annual meeting of EPIG (Interessengemeinschaft Epiphytische Kakteen). The IOS sessions (except the Sunday morning discussion session) will be open to members of these organizations, and IOS members will receive free admission to the Botanic Garden in normal opening hours, and to the Exhibition.

Preliminary Registration

There will be no Registration Fee, but IOS Members planning to attend the meeting are requested to notify the Secretary (secretary@iosweb.org) **not later than 28 February 2013**, please, so that we may estimate the eventual number to be expected.

Accommodation

A block of rooms for the nights of 10 and 11 May 2013 has been reserved for IOS members at the Seminaris Campushotel, Takustrasse 39, 14195 Berlin. To take advantage of the heavily discounted room rate offered *for a limited period* by this modern 4-star Hotel (double room EUR 100 per night, EUR 80 single occupancy), please contact the Secretary (address above) **as soon as possible and not later than 20 January 2013**, giving your dates of arrival and departure, to obtain the **Members' discount Booking Code**.

The hotel is within walking distance of BGBM and convenient for other facilities and easy access to the city centre by U-Bahn.