1. Welcome & President’s Report – Bo Abrahamsen

The ECTS President, Bo Abrahamsen, welcomed all attendees. He informed all participants, that meeting is held live and online. Voting is possible for ECTS members only:

- for onsite attendees by voting cards collected by staff
- for online attendees by voting cards that can be sent after the meeting to membership@ectsoc.org

Then Bo Abrahamsen presented agenda of the Annual general Meeting.

Declaration of quorum

The General Assembly may deliberate validly if the quorum of 15 full members are present or represented is achieved. As the necessary quorum was present, ECTS Past President, Anna Teti declared the meeting duly constituted.

Motion to approve the minutes of ECTS AGM of 4 May 2021

ECTS members were invited to vote to approve the Minutes of the ECTS AGM held as virtual meeting on 4 May 2021. 102 members responded to the vote: 98 in favor and 4 abstain. The resolution was therefore carried as a simple majority.

Retirement of ECTS Board members and presentation of incoming Board members

ECTS President Bo Abrahamsen presented the ECTS Board composition and informed that Annegreet Vlug will retire from the Board, as ECTS Academy representative.

The ECTS Academy has appointed Alex Ireland as new Academy chair into the ECTS Board of Directors.

Bo Abrahamsen asked ECTS members to vote for Resolution 2: appoint Alex Ireland into the ECTS Board. 103 members responded to the vote: 102 in favor. The resolution was carried unanimously.
Bo Abrahamsen congratulated Alex and thanked Annegreet for her continued support to the ECTS Board.

Bo Abrahamsen presented retiring ECTS Board members: Anna Teti, Andre van Wijnen, Nuria Guañabens and Annegreet Vlug and he thanked them for their continued support.

The new elected ECTS Board members were presented:

- Christian Meier (reelection)
- Geert Carmeliet (reelection)
- Bjorn Busse
- Heide Siggelkow

New ECTS President-Elect was appointed Peter Pietschmann.

Bo Abrahamsen Congratulated all new Board Members and presented composition of new Board:

ECTS Board 2022-2023 composition
Bo Abrahamsen (President 2020-2023)
Peter Pietschmann (President-Elect 2022-2023)
Björn Busse
Geert Carmeliet (Secretary and committee coordinator)
Christian Meier (Treasurer)
Claudine Blin (Basic Science committee chair)
Willem Lems (Clinical Science committee chair)
Salvatore Minisola (Research committee chair)
Heide Siggelkow
Ciro Menale (ECTS Academy representative)
Alex Ireland (ECTS Academy representative)

2. **Treasurer's Report-Christian Meier**

The 2021 end of year accounts, 2022 and 2023 strategic budgets were presented by ECTS Treasurer, Christian Meier and are available to members in the AGM lounge.

Accordingly, to the ECTS bylaws, these need to be approved by the ECTS members, together with the discharge of the directors.

Remarks concerning the 2021 Accounts:

- The financial income of the year was 55 773,93 € compared to the estimated profit of 11 250€ which was approved during the 2021 Annual General Meeting.
- Despite the virtual format of events, we were able to increase our revenues and we considerably lowered the operating expenses.

Christian Meier also showed the ECTS liabilities and the cash at bank of over 1,100,000€ between UK and Belgium bank accounts.

The 2021 accounts were unanimously approved by the 101 members who voted to the resolution to adopt the 2021 annual accounts.
Remarks concerning the 2022 budget:
- ECTS Congress 2022, main source of income was held as live event
  ICCBH has postponed all 2021 events to 2022.
- In 2021 the members approved the 2022 budget with an estimated profit of 11,250€
- After new forecasts, the final loss is predicted for -150,250€
- The ICCBH will have planned income of 103,145 €

Full details on the 2022 ECTS and ICCBH budgets are available in the members’ only AGM lounge.

Remarks concerning the 2023 budget:
- Budget expectations are based on physical events
- Operational expenses will be kept stable but a loss of -62359€ is predicted

ECTS Treasurer Christian Meier asked ECTS members to vote for Resolution 4: Motion to adopt 2023 Budget. 103 members responded to the vote: 102 in favor, 1 abstain.

ECTS Treasurer Christian Meier asked ECTS members to vote for Resolution 5: Motion Discharge of the Board of Directors from liability for the financial year ending 31 December 2021. 98 members responded to the vote: 94 in favor, 3 abstain, 1 against.

3. Secretary’s report- Geert Carmeliet
ECTS Secretary, Geert Carmeliet, presented report on ECTS 2022 Membership with following numbers:

2022 MEMBERSHIP

Full membership €95 – 326
Student membership €45 – 160
New Members- 244

AFFILIATED MEMBERSHIP

24 European national societies – 8,000 members
10 international societies – 10,500 members

IFMRS was reorganized and consists now of a Board of Directors and Council. Claus Glüer, representing ECTS, was elected as Board member. Other ECTS members are part of different working groups (big data, future global leaders, education)

Geert presented and explained ECTS structure and governance as below:

- ECTS BOARD OF DIRECTORS - Elected by members
• ECTS EXECUTIVE COMMITTEE - Finance and strategy
  President, President-elect or Past-president, Treasurer, Secretary and Executive Director
• ECTS COMMITTEES & ACTION GROUPS - composed of ECTS members
  19 action groups with over 90 members.
• ECTS STAFF – Roberta Mugnai, Dorota Doszko-Nowak, Martyna Sikorska
• ECTS CONGRESS Secretariat – 2022: Interplan supported by Roberta Mugnai.

ECTS Secretary, Geer Carmeliet, informed that in accordance with new bylaws approved in 2021, first time ECTS Members voted directly for president.

4. Committee Reports

Education Committee - Núria Guañabens

ECTS Education Committee Chair, Núria Guañabens presented report on the committee activities. First, she presented new Action Groups composition as below:
  - PhD training Action Group: Cristina Sobacchi, Denise Van der Laarsch, Donata Iandolo (Academy)
  - Clinical Training Action Group: Richard Eastell, Luigi Gennari, Morten Frost (Academy)
  - E-learning Action Group: Lars Folkestad, Jessica Pepe, Maria-Bernadette Madel, Katharina Jähn-Rickert (Academy)

Then Nuria informed about current Action groups Activities, that are:
  - PhD Training Action Group:
    PhD Training course
    Location: Nice
    Dates: 4-7 July 2022
    Organizer: Claudine Blin
  - Clinical Training Action Group:
    2nd Clinical Training course in metabolic bone diseases
    Location: Sheffield
    Dates: 29-30 September 2022
    Organizer: Richard Eastell

ECTS-Mellanby Training course: Bone turnover markers
Location: Helsinki
Date: 6 May 2022
Organizer: Richard Eastell

  - E-learning Action Group:
    10-12 webinars/year
    6 webinars in rare bone diseases
The planned future activities are:

- PhD Training Action Group:
  PhD Training course 2023
- Clinical Training Action Group:
  Clinical Training course in metabolic bone diseases 2023
- E-learning Action Group:
  10-12 webinars/year
  “Solve the case” webinar series (to be confirmed)

**Research Committee – Salvatore Minisola**

ECTS Research Committee Chair Salvatore Minisola presented Composition of the Action Groups that is as below:

Grants and Awards Action Group
- Peter Pietschmann- Co-Chair (end of term)
- Pawel Szulc
- Olivier Peyruchaud (end of term)
- Melanie Haffner-Lutzner

Academy Member Selection Action Group
- Martina Rauner- Co-Chair
- Outi Mäkitie
- Eric Hay
- Ciro Menale (form 2022)
- Julien Paccou (end of term)

Salvatore Minisola presented 2022 Awards winners:
- Iain T Boyle Award-Natascha Appleman Dijkstra
- Philippe Bordier Award-Barbara Obermayer-Pietsch
- Mike Horton Award- Ulf H Lerner
- Steven Boonen Award- Cyrus Cooper
- Excellence in Research Award- Kent Søe

Salvatore Minisola congratulated awards winners and he presented ECTS Fellowship winners:
- ECTS Basic Fellowship: Federica Scotto di Carlo
- ECTS Clinical Fellowship: Syazrah Salam

**Clinical Science Committee – Carola Zillikens and Martine Cohen-Solal**

ECTS Clinical Science Committee Member Carola Zillikens presented report on the committee activities. First Carola presented Action Group composition:
Clinical Practice Action group: Jean-Jacques Body (Co-chair), Christian Meier, Andrea Palermo, Eugene McCloskey (replaced by John Carey), Jessica Pepe (replaced by Athanasios Anastasilakis), Elena Tsourdi (project-based)

Then Carola Zillikens presented Clinical Practice action group current projects:
- Biochemical markers of bone fragility in diabetes (joint venture with IOF): manuscript will soon be submitted (Chris Meier)
- Tumor-induced osteomalacia:
- «TIO Global Guidance Document» (manuscript led by S. Jan de Beur with several ECTS authors): endorsed by the Board; submitted
- Systematic review of all published cases: A. Bosman/A. Palermo, …, JJ Body, C. Zillikens: work almost completed
* Both manuscripts presented during the Opening Ceremony

Carola informed about potential future projects:
- Multicenter clinical trial: Zoledronate vs Alendronate after Denosumab (A. Anastasilakis): revised proposal almost ready to be sent to the Board
- Literature review of DXA Quality and Patient Outcomes and Clinical pitfalls (J. Carey): revised proposal received: invite IOF/ISCD members + need for junior authors
- Impact of physical activity and review of the various types of physical activity (A. Palermo / A. Anastasilakis): revised proposal received: need for additional Reviewers (contact ECTS Academy)
- Sternocostoclavicular hyperostosis (L. Winter, Leiden): initial proposal reviewed L. Winter is looking for other experts

Later Carola presented new Initiatives of the Clinical Practice Action Group:
- Successful publications will be offered to the SPC for oral presentation at the annual meeting.
- ECTS-position papers and ECTS guidelines will be discussed during annual meeting or webinar with “ECTS-members”, to increase transparency/openness and support.
- A simple scheme has been developed before starting a new project, that helps individuals to answer relevant issues: background/research question, what is in for ECTS, funding of publication etc.
- Plan to have systematically at least 1-2 members of ECTS Academy in our CPA Group"

Martine Cohen-Solal, co-chair of the Rare Bone disease Action group presented group composition:
Rare Diseases Action group: Martine Cohen-Solal (Co-chair), Luca Sangiorgi, Daniela Merlotti, Gavin Clunie, Corinna Grasemann

Then Martine informed about current activities of this action Group:
- Ongoing Publications for the state-of-the-art
  - Adult-Osteopetrosis, Meloreostosis, Ollier-Mafucci, Sternocostoclavicular hyperostosis
- Collaboration between ERN-Bond and ECTS
- Webinars:
  - Hereditary Hypophosphatemia
  - Osteogenesis Imperfecta
  - Fibrous Dysplasia
  - Fibrodysplasia ossificans Progressiva (FOP)
  - Managing adults with low alkaline phosphatase
  - Sclerosing Bone Dysplasias

**Basic Science Committee-Claudine Blin**

Claudine Blin, Basic Science Committee Chair presented committee composition:

Björn Busse (co-chair)
Jan Tuckermann
Kent Soe
Silvain Provot
Michaela Tencerova
Katherine Staines

Then she presented Committee Activities that are:

- Update of the guidelines for the evaluation of basic science abstracts submitted for the ECTS meeting
- Developing incentives to attract basic scientists to ECTS
- Manuscripts in preparation
  - Review on 2D/3D imaging of osteocytes
  - Review on what can Finite Element Methods teach us on bone biology: explanation for the non-expert scientist
  - Position paper on the importance of animal experimentation in bone research
- Manuscript suggested
  - Review on an integrated overview of scRNA-seq studies in skeletal tissues.

**Communication Committee - Andre van Wijnen**

Andre van Wijnen, committee chair presented Action Groups composition:

Newsletter Action Group:
Petar Milovanovic, Lead
Antonio Maurizi
Cristiana Cipriani
Barbara Hauser
Antonia Sophocleous

Website and Social Media Action group:
Alex Ireland, Lead
Sonja Gamsjaeger
Ursula Heilmeier
Natalie Butterfield
Steen Morten Hansen
Then Andre van Wijnen presented Committee activities, that are:

Website: Andre explained what information can be found on the ECTS website. He mentioned that there are many additional options if you log in to the members area.

Newsletter: a monthly newsletter is sent to the ECTS community to inform about ECTS achievements and future activities, developments in the field.

Social Media: regular news are also shared via the ECTS Social media accounts. Facebook and LinkedIn are connected with ECTS Website. Current ECTS Twitter accounts are as follow:

- @ECTS_soc official business, policy, endorsement, membership, organisation (managed by staff)
- @ECTS_science scientific interaction, links, highlights and discussion (RT is not endorsement) (managed by researchers)
- @AcademyEcts: the ECTS Academy (managed by academy members)
- Andre presented also report of activity on ECTS Twitter accounts.

Future communications activities will include:

- Website development including integration with ECTS App, e-learning platform integration and social media integration
- Content creation to social media
- Social media engagement with other societies, overlapping science areas, membership and conference attendance building.

ECTS Academy Report – Ciro Menale

Chair of the ECTS Academy – Annegreet Vlug presented report on ECTS Academy Activity. There are currently 32 members from all across Europe, MDs and PhDs.

Criteria to apply for the academy membership are:

- Within 10 years after first degree
- Research excellence
- Commitment to society
- Recommendation from two supporting mentors

Ciro presented then upcoming Academy activities during the ECTS annual congress in May 2022

- NI Seminar
  - 6 additional presentations in a friendly interactive environment
- NI Mentoring session
- Next Generation Synergy session
  - exchange programme reports
  - introduction of other international societies
- Poster Forums and Poster Tours (basic & clinical)
- Charity Event (In collaboration with ECTS)
- run/walk challenge to raise funds for “People with Short Stature”

There were following Academy activities throughout the year:

- Webinar series
  Aim: promote younger PIs and collaboration with early career groups of international partner societies
  - Mentoring Chat
  - Discussion about specific topic targeting young scientists
  - Outreach to other Societies

Networking with young investigators around the globe (exchange programme, joint webinars and educational videos, Newsletter coverage)

- Inter-Academy Collaborations
  Several ongoing consortia (Fidelio, GEMSTONE) and internal collaboration, Editorial activities, joined publications
  - Social media
  ID cards, mentor stories, favourite scientific picture, best congress experience
  - Scientific dissemination to lay public

Reproduction of scientific publications in a succinct and comprehensible manner

Then Chair of the ECTS Academy – Ciro Menale introduced newly elected ECTS 2022 Academy members and she congratulated them:

- Tim Rolvien
- Felix Schmidt
- Anda Mihaela Naciu
- Gaia Tabacco
- Franziska Knopf
- Michaela Tencerova
- Alanna Green
- Antonio Maurizi
- Christina Moeller Andreasen

Scientific Programme Committee Report-Bo Abrahamsen

Bo Abrahamsen presented composition of Scientific Programme Committee 2022 and 2023:

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<thead>
<tr>
<th>• Composition ECTS 2022</th>
<th>• Composition ECTS 2023</th>
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<tr>
<td>– Bo Abrahamsen, Congress Chair (DK)</td>
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<tr>
<td>– Anna Teti, Co-Chair (ITA)</td>
<td>– Peter Pietschmann (AT)</td>
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<td>– Bram van der Eerden (NL)</td>
<td>– Jim Gallagher (UK)</td>
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<td>– Radmila Matijevic (SER)</td>
<td>– Polyzois Makras (GR)</td>
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<td>– Outi Mäkitie, LOC Chair (FIN)</td>
<td>– Martina Rauner (GER)</td>
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<td>– Claire Edwards (UK)</td>
<td>– Celia Gregson (BRS nominee)</td>
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<td>– Teresita Bellido (US)</td>
<td>– (UK)</td>
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<td>– Björn Busse (GER)</td>
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<td>– Polyzois Makras (GRE)</td>
<td>– Natasha Appelman-Dijkstra (NL)</td>
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<td>– Laurence Vico (FRA)</td>
<td>– Melissa Formosa (MALTA)</td>
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<td>– Petar Milovanovic (SER)</td>
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The Committee has the following responsibilities delegated to it by the ECTS Board:
- Recommend speakers and topics for the ECTS annual meeting, ensuring an adequate gender, geographical and ethnic representation on the programme
- Assist in compiling preliminary programme
- Advise on general format and timetable for the meeting
- Advise on any potential conflicts of interest
- Advise on potential abstract reviewers
- Review abstracts in own subject area
- Attend abstracts selection meeting if required

Bo Abrahamsen presented ECTS 2022 programme highlights:
- 4 Plenary symposia with 8 invited speakers.
  - Sessions designed to bring clinical and basic science together
- 8 Parallel symposia with 16 invited speakers.
  - One auditorium clinical + public health
  - One auditorium basic + translational
- Two debates
- 8 Meet the Expert sessions in Helsinki + 2 online
- 2 Allied Health Professional Seminars
- A busy Friday pre-congress programme with 118 speakers, Open Fora and the National Day

ICCBH Report - Frank Rauch

ICCBH Steering Committee Chair Frank Rauch presented report on ICCBH activities in 2022. This report was prerecorded.

- ICCBH Bone School
  3-day educational course on paediatric bone health and rare bone diseases
  29 June – 1 July 2022 (Dublin, Ireland) and 29 – 31 May 2023 (Annecy, France)
- 10th International Conference on Children's Bone Health
  2-5 July 2022 (Dublin, Ireland)
- 14th International Conference on Osteogenesis Imperfecta
  30 August – 2 September 2022 (Sheffield, UK). Postponed to 30 August – 2 September 2022 (Sheffield, UK)

Frank informed about ICCBH partnership with ECTS on following activities:
- Partners with ECTS for webinars
  Skeletal dysplasias in inborn errors of metabolism (B. Lee) 17 Nov 2022
  Fractures and secondary osteoporosis in pediatrics (C. Medina-Gomez and L. Ward) 15 Dec 2022
- Partners with ECTS for workshops
  ECTS-ICCBH Rare Bone Diseases Workshop 6 May 2022, 11:00-16:00 CET
  - ICCBH New Investigator Awards
For work submitted to ECTS on paediatric bone health and rare bone diseases
Awards reciprocated by ECTS for ICCBH 2022 and OI 2022

Frank Rauch informed also about New Maria Louisa Bianchi award For a researcher or healthcare professional working in a low- or middle-income country generously provided by Maria Luisa’s husband Claudio Cappuccino. 2022 winner is Aashima Dabas from New Delhi, India.

He informed about collaboration with other organisations:
Member of European Rare Bone Forum
Associate member of IFMRS
International XLH Alliance: Symposium, 1 July 2022, Dublin
ERN-BOND: Workshop on Spinal pathology in children achondroplasia, 2 July 2022, Dublin
Workshop on early life interventions in OI, 30 August 2022, Sheffield
World Duchenne Organisation: Bone in DMD (3 Nov and 14 Nov 2022, online)

Frank Rauch informed also about review of ICCBH Organisation / Governance. The conclusion is to work towards setting up a separate society (International Society for Children’s Bone Health)
Frank Rauch thanked ECTS Board, Members and Staff for support.

Q&A and closing - Bo Abrahamsen

Bo Abrahamsen, ECTS President thanked everyone for participation in the meeting and closed the meeting.