

GOBLET AGM 22-24 November 2017

Oeiras, Portugal

Wednesday November 22, 2017

Roll Call (Terri)

- 16 members needed for quorum
- 22 member organisations present or represented, plus 3 individual members

Member Organizations Present: EMBnet (Terri Attwood); ISCB (Michelle Brazas); IGC (Pedro Fernandes); APBioNet (Asif Khan); H3ABioNet (Kim Gurwitz); UoCam (Paul Judge); CSC (Eija Korpelainen); ABACBS (Annette McGrath); bioinformatics.ca (Ann Meyer); BITS (Luciano Milanesi); BioSB (Celia van Gelder): 11

Individual Members Present: Dave Judge; Jure Dimec; Allegra Via: 3

Represented by Proxy: SolBio (Pedro Fernandes); SIB (Allegra Via); GTN (Annette McGrath); EBI (Annette McGrath); CMBI (Celia van Gelder); TSL (Terri Attwood); EI (Terri Attwood); ISB (Terri Attwood); QFAB (Annette McGrath); EMBL-ABR (Michelle Brazas); Wellcome Trust Genome Campus (Michelle Brazas): 11

Secondary representatives without voting right: EMBnet (Domenica D'Elia)

Absent: Hellenic Soc; SEB; SGBC; ASBCB; OMICtools

Observers present without voting rights: Victoria Dominguez D'Angel (IFB); Joana Marques (IGC)

Approval of Minutes - Terri approved, Ann seconded

Matters arising and amendments to agenda Let's be flexible with agenda, some additions to agenda to discuss (e.g. AGM 2018 late proposal submission)

Financial Report

- Slide deck from Celia van Gelder
- Financial matters for GOBLET have been handled by various individuals over the years:
 - 2012-13: Celia & Barbara
 - 2014-16: Fran Lewitter & Barbara
 - 2017-present: Celia without admin support; assistance from Fran
- GOBLET membership status in 2017: Individual members = 16; Member organizations = 12 Bronze, 4 Silver, 9 Gold, Platinum 2 for a total of 27 member organizations
- Some membership levels have changed from previous years:
 - 8 of 16 individual members renewed
 - One new organizational member (OMIC Tools)

- One organization left GOBLET
- 3 non-responder organizations
- One member used low/middle income request status
- 2 organizations (EMNet, SolBio) paid upfront for multiple years
- Total number of members decreased so we need a plan to attract new members
- Some work can still be done to highlight the benefits of being an individual or organizational member in GOBLET
- Terri notes that if the organizational representative leaves and does not pass along a contact to GOBLET, there is a void for whom to contact at that organization
- Expenses (2017): A total of 21,734 Euros in expenses expected; biggest expense is technical intern; expenses for communication materials for conferences including new banners from PR; expenses pending for reimbursements for AGM outlays;
- Revenues (2017): A total of 41,120 Euros in revenues expected; biggest revenue is annual membership fees which totalled 16,120 Euros; previous years have had AGM related grants but none were secured for this year; plus 25,000 EMNet donation for a specific project
- Bank balance expected at conclusion of 2017 = 78,700 Euros
- Projected Expenses (2018): funding for 3 projects at 7,000 Euro each; 5,000 Euro in travel funds for Exec to attend AGM or represent GOBLET at appropriate events;
- Suggestions for moving forward: 1) set out a call for proposals from OB Chairs on how to spend money on specific projects related to their committees; 2) need to increase membership by demonstrating benefits of being a GOBLET member; 3) Exec to put together a membership package; 4) renewals for 2018 will need admin help, for which funding is available; 5) member mailing list needs to be updated
- For the first time this year, we have secondary representatives for some member organizations. At the silver, gold and platinum membership level, organizations can have multiple representatives. Treasurer does not know who these individuals are most of the time.
- GOBLET needs to identify why people leave so we can mitigate.
- Victoria wants to represent her organization, but also wants to be an individual member at the same time. A reason to be both is because when people leave their organizations, they may still want to remain involved. Under such circumstances, Terri notes the Statutes say that people can only have one vote - the organisational membership trumps the individual membership.
- Ann inquires if Treasurer could email all silver, gold and platinum members to designate their second representative? We could do this in a targeted way by using Google forms to update to allow people to self update their representatives and secondary representatives. A sub-committee could take on membership retention.
- Addition to GOBLET AGM agenda: Reasons to be a member in GOBLET for individuals, organizations, countries, etc.

Executive Board Report

- Slide deck from Terri Attwood
- Actions and outcomes from 2016 AGM
- Executive Board list of actions from AGM 2016 has many completed tasks but also some

uncompleted tasks:

- Did not enable co-development of branded materials in GitHub;
- Did not set out co-branding guidelines for a GOBLET course/event;
- Did not compile statements of benefits of membership with 'sales pitch' content;
- Did not set up AGM via Skype halfway through the year.
- Elections from AGM 2016: Bruno Gaeta (Fundraising Chair); Ann Meyer (PR Chair); Carlos Horro (Technical Chair) → Michelle Brazas is now acting technical Chair; Vicky Schneider (Standards Chair) → Sonika Tyagi is now acting standards Chair; Pedro Fernandes (LET Chair) → has not performed Chair duties, so committee needs co-Chairs to help with breadth of responsibilities of this committee. Nicky Mulder and Allegra Via are interested to co-Chair LET Committee.
- Andreas Gisel, appointed by EMBnet as tertiary representative of EMBnet in GOBLET, would like to be a member of the LET Committee
- Asif would like to become involved in the PR Committee, especially to give a voice to Asia

- AGM 2016 developed a new mission and vision for GOBLET
- Vision: To unite, inspire, and equip bioinformatics trainers worldwide
- Mission: To cultivate the global bioinformatics trainer community, set standards, and provide high-quality resources to support learning, education and training
- Does this mission and vision still resonate with us?
- Asif commented that it is interesting that the phrasing does not include trainees. It does, but from a training provision perspective, as GOBLET's focus is on trainers who train trainees.
- Allegra commented that curriculum development is not listed. It is there, but not explicitly listed up-front to avoid overloading statements. ISCB is also involved in curriculum, and GOBLET partners with ISCB in this regard.

- GOBLET Accomplishments in 2017:
 - Papers: 1) Defining the ELIXIR/GOBLET e-learning ecosystem, in Zenodo; 2) A global perspective on bioinformatics training needs, submitted to BioRxiv; 3) Plug gap in essential bioinformatics skills, commentary in Nature; 4) Second paper on training needs in BiB; 5) BioCIDER publication, in Bioinformatics
 - Poster Presentations: Biocuration 2017; ISMB 2017 booth; ISMB Standards Committee poster, Exec poster, Galaxy poster, and Train-the-Trainer instructor poster
 - GOBLET newsletters: SEB Bulletin; new look and design for GOBLET newsletters, with 3 being produced in 2017
 - Are these listed on GOBLET website? Yes, except for most recent newsletter, which could not go up while the website was under migration.
 - Numerous GOBLET workshops were held in 2017:
 - ELIXIR Train-the-Trainer workshop in Lausanne led to proposal for template for online materials; needs to incorporate FAIR standards
 - qbrmd → template for mock-up of online Train-the-Trainer material
 - ELIXIR AllHands meeting in Rome: discussed statistical literacy workshop

- Allegra's TtT workshop at GOBLET AGM 2017
- International workshop on data science training: standards, schemas and successes, in Huntington Beach with BD2K
- Stockholm: Internal NBIS training workshop, building a mastery rubric for bioinformatics training
- e-learning workshop at IGC aligned with GOBLET AGM 2017
- Working to distill 5 years of GOBLET activities into a single report. Exercise has shown Terri just how much GOBLET has achieved in 5 years. We should be proud of our achievements and our volunteering efforts.
- Grants applied for in 2017: 1) ICTP - Simon Hodgson (CODATA-RDA), where GOBLET will be involved in delivering a bioinformatics module in data science summer school; 2) ARC industry training centre for applied bioinformatics - Dave Edwards; Letter of Support written for grant from GOBLET; Annette was unable to participate under her institutional hat; no income to GOBLET but may help with visibility
- Asif - GOBLET is interested in grants related to Train-the-Trainer; Terri - we are interested in all grants related to core mission; difficulty in global funding opportunities; all need to keep eyes open for calls in their countries, where international synergies would be beneficial
- Conclusion - busy year, still lots to do; appearance seems slow, so hard to see progress; when starting from nothing, it takes thought and effort to build the foundations, but we have come a long way, and foundations are there; now is the time to get more involved
- Luciano - Will presentation be available on website? Yes. Represents BITS, and organizes internal working groups that have opportunity to participate in GOBLET; of mutual benefit, how local projects can take advantage of GOBLET membership; unclear which part has been done with financial backing of GOBLET → much has been done in kind without funding, many things done with ELIXIR initiatives, as part of joint training strategy; with limited funds, we have to be clever in how things are accomplished in GOBLET
- Allegra - best way to benefit from membership is to have organizational members participate in GOBLET committees; hence, she had volunteered to be BITS representative on committees, etc.
- Domenica - BITS is bronze member currently; maybe at next renewal there could be opportunity to have more reps in GOBLET
- BITS (Bioinformatics Italian Society) will organise a working group on "Education and Training" in order to collaborate with the GOBLET on these topics.

Standards Committee Report

- Slide deck from Sonika Tyagi
- Question on presentation: Were the standards an extension from last year's committee? Yes
- Standards Committee will work to support development of Bioschemas specifications

Fundraising Committee Report

- Slide deck from Bruno Gaeta
- Question on presentation: Last year, there was a Train-the-Trainer package. Did this move forward? No, this did not move forward, but it is still available to use.

- Fundraising Committee has put together a draft sponsorship package: <https://goo.gl/xewcBe>

Technical Committee Report

- Slide deck from Michelle Brazas
- A lot of movement in the Technical Committee: Carlos to Michelle; Andrew Lonsdale our technical intern started Feb 2017, but will leave end of 2017
- Web administration has been one person working on weekends, which limits the amount and depth of work that can be achieved
- Survey of website needs was completed and translated into a list of tasks that were prioritized
- Based on survey needs, a new Drupal template was selected
- Website migrated from Itico servers and moved into our own servers on Linode
- Website pages have been moved around to reflect intuitive positioning of content
- Andrew added security (https)
- Important feature that is on the GOBLET website wish/to do list: create a website that can pull instead of being dependent on people depositing training materials. Pull does not mean getting and storing materials from other sites; It is about linking to training materials. Objective is to ensure we have push and pull mechanisms, and that we store links, as well as materials.
- Could have GOBLET-validated materials, and suggestions of materials/links that may be of interest to users. We need to filter and evaluate quality of materials - e.g., have a directory of materials from partners, and/or have a sub-committee to evaluate training materials. Save links to materials - what's crucial is what kind of presentation do we want to show in the portal. GOBLET-approved materials.
- Can GOBLET assign DOIs? This has been looked into, but it's expensive. Perhaps we could explore this further, and clearly define the costs. What about Zenodo or F1000? These require submission into those systems, which is problematic given that individuals do not submit to GOBLET as it is.
- To date, Technical Committee has provided website support with minor development. To move past this will require significant resources focused on Web development. A developer is needed, if we are to implement a scraper, and develop the website/portal further, given our existing list of tasks/features.
- APBioNet has had similar problems. A solution for APBioNet was to set aside 24,000 Euros (in fact, the sum was much lower). The individual provided admin and Web development support. APBioNet is getting this level of full support for 15,000 Euros.
- Could ask Web development teams to bid on project to provide Web development support.
- Are the plans for the website sufficiently mature to proceed on this? The Technical Committee needs to revisit the task list and ensure that it captures all of the current needs.
- New Technical Committee members - Asif & Paul Judge
- Andrew Lonsdale is willing to stay onboard as a committee member
- Include Niall in relevant committee meetings, as he can bring the TeSS components in

PR Committee Report

- Slide deck from Ann Meyer

- Hashtag for GOBLET AGM = #GOBLET17
- Much progress in the past year, given no materials were previously available
- Produced poster template, which was used by many poster presentations
- Produced logos for each committee; Ann to circulate these to chairs
- Produced a newsletter template, and 3 newsletters
- Produced banners for booth displays, which were used at ISMB/ECCB 2017
- Produced coasters as advertising materials for conferences
- PR banners from 2017 are currently in North America. New set of banners to be kept in Europe. Agreed that banners should be duplicated in Europe to avoid mailing banners back and forth; also duplicate for Asia.
- Member spotlight in newsletters is an opportunity for organizations to highlight themselves. APBioNet is interested to be represented. Could put together a schedule of member spotlights to ensure all members have an opportunity to be represented
- Get an ISBN number for newsletters?
- Switching GOBLET mailing lists to mailchimp is an upcoming task for PR Committee
- Not much GOBLET activity in Asia. Asif can help, and will work with Ann to get some traction in Asia. APBioNet has a lot of experience in digital marketing, so we can target to audience and geography for low cost. Could also have an INCOB conference presence.
- A GOBLET brochure needs to be developed
- We all need to keep Ann and the PR Committee informed of what's going on. If we do something related to GOBLET, we should let the PR Committee know.

LET Committee Report

- Slide deck from Pedro Fernandes
- LET Committee = Cath Brooksbank, Marie-Claude, Celia van Gelder Nicky Mulder, Gabry, Allegra Via, Pedro Fernandes? Listed in LET report.
- Propose to remove star system on training materials because lack of stars and reviews reflects poorly on the materials and website
- Idea to insert badge system in website; this is not a priority for the Technical Committee
- Question on what is the mission of LET? How do you link things that have been done to what is being proposed now? Propose to do more e-learning and create small learning objects. Propose to support creation of materials in technical manner, so materials can be used on tablets, etc. Unrealistic objective from Technical Committee perspective.
- Kim is happy to be involved in LET Committee; Jure and Slovenia team could help with e-learning and e-learning objects work.

EMBnet-sponsored project

- Slide deck from Terri Attwood
- Collaboration potential first arose at EMBnet AGM in 2015
- Agreement established in May 2017
- Project kick-off in August 2017
- Possible materials to be developed during project:

- Critical Guides for bioinformatics building on EMBnet Quick Guide (QG) concept
- Train-the-High-School-Teacher materials; working with SIB
- Train-the-Trainer materials; working jointly with ELIXIR
- Workflows for different levels of trainees on different topics; working with ELIXIR TeSS
- Plus other materials
- Evolution of Critical Guides: design concept based on materials for Higher Apprenticeship scheme for college-level students in the UK, which has succinct modules within tightly specified units; potential new design, guided by GOBLET standards, created for new look-and-feel; Terri produced a rough layout, and wrote new material building from UniProtKB and Unix QG content; selected new image for front cover from Antonio Santovito's designs; produced drafts with EMBnet Education and Training Committee Chair, Eija; have not discussed drafts with GOBLET LET Committee, as there have been no LET Committee meetings; back cover will contain standard content: e.g., About GOBLET, About EMBnet, About Antonio's company, About Author content; space for DOI on covers; on front cover, module title contributing to series; inside content has learning objectives and outcomes, short and long descriptions, key terms, exercises, take homes, references and further reading; licensing etc.
- Activity and plans:
 - Produced 2 Critical Guides, for UniProtKB and UNIX
 - Expect 2 more Critical Guides by March 2018 → BLAST and UniProtKB flat-file format
 - These will all contribute to 'Introduction to Bioinformatics' Unit
 - Planned for end of July 2018 → RNA-seq data analysis, genome analysis
 - Aim for November 2018 is preliminary draft for Train-the-Trainer and Train-the-Teacher materials
 - Solicit guides on new material that people are experts in; expert author content would need GOBLET peer review and approval before distribution
 - Continue to work with Train-the-Trainer program in ELIXIR-EXCELERATE
 - Continue to work with Train-the-Teacher materials, using Critical Guide template or using the QuartzBio template; e.g., begin with Marie-Claude's materials from SIB
 - Standard Critical Guide template will be available for use by other authors
- High-school teacher materials fits within former task force in LET; Train-the-High-School-Teacher is of general interest: Celia, Eija, Allegra, Domenica, Asif, Jure, Pedro, Kim are interested
- Agreement between GOBLET and EMBnet had discussed a task force between the two groups; next step is to get LET Committee to take on this activity
- Question: Who is target audience? Audience differs per guide; indication of audience in the guide? The series/unit title can specify this, e.g., 'Introduction to bioinformatics'
- Question: Could Critical Guides be learning objects under LET? Yes. Could also be used in workflows
- Question: If we have these materials, what will we do with them? How will we distribute them? To be used in training context; will be available from EMBnet and GOBLET websites; will be part of GOBLET portfolio of training resources;
- Question: Who is using QGs from EMBnet? Domenica does not know download stats, but the previous guides have not been updated in many years, so this is why the QGs were targeted to be updated; guides used in past in courses; could be used to introduce bioinformatics into

university coursework, but in order to insert into curriculum in many countries will need translation into local language.

- Applicability of Critical Guides is much broader than QGs; can be used for self-study, as they are more comprehensive; dissemination and distribution through ELIXIR nodes; under discussion at EMBnet is to supplement Critical Guides with virtual machines/Docker to support learning
- Question: Will the Critical Guides use EDAM ontology? Good point, yes
- Question: Past topic ideas are now covered; how to cover new/future topics? Task force with joint members to identify topics; Critical Guide topics will need to include a wider range of topics than these initial topics; Eija has a [document listing suggested topics and experts to author each](#);
- Question: see the value of Critical Guides for early trainers and trainees; concern of how this will grow and model for growth? Will we continue to grow at specific topic level or broader at concepts or application level? PDFs are good but model is old fashioned; can we consider Wikipedia model? If template framework has been agreed upon, then can move this template into other current formats
- Suggestion from PR Committee is to use GOBLET GitHub account to store and track downloads; can template out the Critical Guide on GitHub;
- Encyclopedia of Bioinformatics has a similar challenge. Set up properly, then there is incentive for participants to contribute, as there is visibility and value to these guides

Off-cycle Committee Chair Elections and Votes

- LET Committee co-Chairs: Allegra Via and Nicky Mulder need to be approved/voted in as LET Committee co-Chairs
- Standards Committee: Sonika Tyagi is prepared to stand as Chair, and needs to be voted in
- Any people in the room interested in Standards, Technical and LET Committees?
- Paul Judge may be interested, but needs to discuss prior to committing

Off-cycle Election Results

LET Committee co-Chairs:

	Y	N	A
Nicky Mulder	25		
Allegra Via	25		

- Unanimous election of Nicky Mulder and Allegra Via as LET co-Chairs

Standards Committee Chairs:

	Y	N	A	Spoil
Sonika Tyagi	13	5	6	1

- Sonika Tyagi elected as Standards Chair by majority of votes cast

GOBLET AGM 2018 Bids

- Toronto proposal (Ann Meyer)
- AGM held in Toronto in 2014
- Location would be at OICR in MaRS, which is a research innovation hub in Toronto; located within Toronto Discovery District

- OICR would offer the meeting rooms for free; plus wifi and teleconference equipment
- Cost breakdown: total cost would be \$15,000 CAD
- Could apply for a CIHR grant for \$10,000 CAD
- Grant application would happen in Feb 2018, with announcement of award in April 2018
- Possible dates: Nov 6-8, Nov 19-21, Nov 27-29, 2018
- Possible link to STAO 2018 conference, which will have conference during first weeks in November; date un-determined in 2018

- Malaysia proposal (Asif)
- Kuala Lumpur (2018) or possibly Jakarta (2019) to link with INCOB
- If 2018 bid fails, then he would bid for 2019 in Indonesia to align with INCOB, which will happen there in 2019
- Venue would be at Asif's university
- Budget could be supplemented with funding for workshops like Train-the-Trainer around AGM (10,000 Euro has previously been awarded)
- NFCC could co-sponsor for hotel (6,000 Euro total could be funded)
- Hotel close to institute
- APBioNet could help facilitate, which is co-located with Asif (1,000 Euro for meals could be funded by APBioNet)
- No possibility for airfare co-funding
- Typical costs are 900 Euro to fly from Singapore to Europe when booked at last minute; cheaper if planned in advance
- Would time it with some other larger event, such as INCOB

AGM 2018 Results - 10 votes for Malaysia; 14 votes for Toronto and 1 abstain

Project Ideas for Spending GOBLET Funds

- Consider funding projects outside of items already budgeted for during Treasurer's report
- 1. **Travel sponsorship/fellowship for student as GOBLET ambassador:** to attend ISCB; GOBLET gets recognition of student sponsorship; could link in with RSG.
- 2. **Education conference:** Align with ISCB COBI COSI Education conference; GOBLET is involved in these discussions; GOBLET could sponsor the conference in some way.
- 3. **GOBLET Marketing Video:** produce 'About GOBLET' video, with member pitches on why I am a member; post on website to explain what GOBLET is about;
 - a. ELIXIR had a similar video; Victoria to ask how much it was to develop a similar video (think it is 1,000-2,000 Euros); Celia to send out inquiry;
- 4. **Extra set of GOBLET banners:** for Europe and Asia
- 5. **GOBLET Award:** Annual recognition prize/award for best training course, best training material; best trainer, best presentation, best PhD (related to pedagogy)
- 6. **Individual Members Representative:** at GOBLET AGMs to give voice to individual members; individual member representative would coordinate individuals, push them and would receive funding to travel to attend GOBLET AGM.

7. **Fund GOBLET speakers to go to major events and speak about GOBLET:** select activity, such as a conference where GOBLET sponsors attendance of GOBLET rep to speak about GOBLET at the conference, offer Train-the-Trainer workshop, etc.
8. **Certification/accreditation/endorsement/badges:** What about GOBLET accreditation? Would be a good idea to have materials accredited by GOBLET. If not accreditation, what about endorsement?
 - a. This still requires criteria against which to measure materials, which GOBLET or the community does not yet have; should create a checklist of what should go into a training program; GOBLET has been working on preparing documents, but would be useful to resurrect these.
9. **GOBLET event for international high school teachers:** given significant interest in Train-the-High-School-Teacher, could we organize a GOBLET event for international high-school teachers? Link with international baccalaureate program, which allow teachers from many countries to participate (www.ibo.org);
 - a. EMBL Learning laboratories;
 - b. ISCB has a high-school event, initiated with a high-school student.
10. **GOBLET clinics or nodes:** could have a representative of GOBLET activities at various clinics or nodes around the globe; currently individual members and organizations do not represent GOBLET, but they should be considered as GOBLET nodes or ambassadors; for example, it may not be clear to APBioNet members that they are a member of GOBLET and what benefits they get in return

LET Committee Ideas for Actions in 2018

- Allegra + Nicky + Pedro as co-Chairs will pick up LET activities in 2018
- From 2016 AGM the LET objectives were to:
 - Provide a training portal for trainers to share training materials and knowledge
 - Provide a forum for trainers to exchange ideas and experience
 - Provide facilities and materials for high-school teachers
 - Develop badge system for trainer recognition
 - Develop core competencies for bioinformatics training
 - Establish and implement a Train-the-Trainer program in collaboration with EBI, ELIXIR and H3ABioNet
- Aim of the LET Committee is to coordinate the development and sharing of best practices in teaching
- Allegra proposes to focus on 3 things: 1) Learning → learning path, curriculum development and competencies, guidelines for preparing courses like curriculum checklists; 2) Education → high-school teacher and Train-the-Trainer training programs, 3) Training → guidelines for trainers
- Objectives need to be narrower and more tangible, so that traction can be achieved in 2018
- To address global aspect, would like to see FAIR standards enforced. Fairness of training materials/documents/guidelines, etc.
- Kim interested to be a new LET Committee member

Thursday November 23, 2017

Bioschemas Presentation and Workshop

- <https://drive.google.com/file/d/1aiMjp8ve9RsZqMWkSoUvPKW6o8QUwv-s/view?usp=sharing>
- FAIR principles for training materials: Findable, Accessible, Interoperable, Reuseable
- How to find training resources: TeSS, FAIRsharing.org, ELIXIR tools and data services registry, bio.tools, Google where you can filter down to topic of interest
- How to make things more findable? Making training content more findable in Google makes it more useable in registries
 - To increase Google traffic - have more links to your site; have structured metadata
 - To increase Registry inclusion - have structured data. Partial metadata = RSS, ICAL; Full metadata = OAI-PMH, custom schema, schema.org
- schema.org created by Google, Amazon, Yahoo to produce vocabularies; means that search engines don't have to do all of the text-mining search because the metadata does it for the search engine
- Each vocabulary describes a series of objects, e.g. recipe example
- We want to be able to create a schema.org vocabulary for training materials
- Once defined, then each training website would use the training schema to annotate their content so the materials become searchable
- Search engines favour websites containing schema.org in their search results
 - 0.3% of websites have schema.org markup
 - 36.6% of Google search results have schema.org markup
- Having schema.org markup in training materials allows training registries to find your materials
- Event vocabulary: schema.org/Event; Event schema has many attributes that are used by other events, which may not be important for training materials or courses
- schema.org has a broad list of properties to describe something; mandatory fields are designated by search engine or registry
- Timeline of Bioschema.org: Training materials and event specifications vocabulary for Bioschemas started in UK in October 2015 at ELIXIR-UK all hands meeting + GOBLET + Pistoia Alliance; GOBLET annotates materials with bioschemas specifications in Feb 2016; Skype call with LRMI (learning resource materials info); 10 new bioschemas adopters; bioschemas implementation study funded by ELIXIR, focusing on scientific data; TeSS meets GOBLET Standards Committee in March 2017; discovered schema.org/Course and /CourseInstance in November 2017; workshop at GOBLET AGM in November 2017
- Adopters of schema.org/Event = SIB, Data Carpentry, EMBL-EBI, ELIXIR, Edinburgh Genomics, IFB, University of Birmingham
- Need to decide if event or course is better, as above groups use Event schema
- Bioschemas.org/TrainingEvent based on schema.org/Event; topic field uses EDAM ontology
- Bioschemas.org/TrainingMaterial based on schema.org/CreativeWork
- EDAM ontology → biosphere.france-bioinformatique.fr and click on EDAM tab to see structure of ontologies
 - <https://biosphere.france-bioinformatique.fr/edamontology/browser/>

- Bioportal.bioontology.org → use to EDAM annotate your text; copy and paste your text into search box and it will spit out appropriate EDAM ontology for your text
 - <http://bioportal.bioontology.org/annotator> (NCBO bioportal annotator)
- Bioschemas.org/specifications and learn about Training Material specifications; highlighted which ones are important fields
- schema.org/CreativeWork is generic for creative work, which has been adapted to training materials
- LRMI (Learning Resource Metadata Initiative) created Course and CourseInstance schemas; LRMI was discovered in schema.org; published in March
- Led by Creative Commons and the Association of Educational Publishers (AEP) to establish a common vocabulary for describing learning resources: <http://lrmi.dublincore.net/>
- Application of schema is manual? Dominique is developing a tool to translate your Web material to schema
- TeSS will need to adapt to recognize both schema.org/Course and bioschema.org/TrainingEvent in order to capture training materials that have used either standard
- Bioschema.org has not been deposited in schema.org so is not well known beyond our community vs. LRMI, which has deposited schema for Course into schema.org so it is better known
- Bioschema.org though is an extension from existing schemas within schema.org

Coffee Break

- Activity for today will be to develop schema for training resources
- Taking existing schema.org and modify attributes as necessary and publish on bioschemas.org; bioschemas.org will then submit to schema.org
- Bioschemas specification process/workflow: use case study for course → mapping → map2model (markdown) → specification (jekyll)
- Should begin with the GOBLET Standards Committee minimum requirements as the use case study: <https://docs.google.com/spreadsheets/d/1Xhy5vGnWYFzVz29iIMrXQ5ifr2vUKdx6ZiQxwElo-9s/e/dit#gid=0>

Friday November 24, 2017

Review of Individual and Organizational Benefits

- On Wednesday November 22, we posted benefits of being a GOBLET member from an individual, organizational and country perspective
- Following fruitful Bioschemas activities, are there other benefits that come to mind?
- <https://docs.google.com/document/d/1UeIKdmvR4ypsXqkcZND7W6DEACHyOsJXutumRHrwkLU/edit?usp=sharing>

GitHub Workshop - Ann Meyer

- <https://bioinformaticsdotca.github.io>
- https://bioinformaticsdotca.github.io/GOBLET_GitHub_2017

ACTION: Ann to add screenshots to her instructions to make them standalone

Docker Workshop - Andrew Lonsdale

- <https://docs.google.com/presentation/d/1GPAO2gwjnSeVDvtJeKhJJxOHGWiH-FkFTn2S26zbAb4/edit#slide=id.p>

Action Items 2018

Executive Board Actions

- Pull together a finalized points sheet on individual/organizational/national benefits of being a GOBLET member
- Finish 5-year report
- Appoint a representative for individual GOBLET members
- In 6 months time, hold a Zoom conference
- Look into getting a F1000 channel for GOBLET
- Organize all paperwork behind GOBLET in Google folders for succession planning
- Circulate contact information for how to join a committee and how to share information with all@mygoblet.org

Technical Committee Actions

- Review technical features
- Check with Exec and OB chairs on features needed compared to list
- Solicit Web development bids against technical feature list

LET Committee Actions

- Get committee off the ground in 2018 as compared to 2017
- Share LET Committee documents with new OB chairs
- Begin with high-school teacher training activities

PR Committee Actions

- Duplicate banners for Europe and Asia
- Develop a GOBLET brochure
- Switch GOBLET mailing lists to mailchimp
- Create a schedule for organizations to be represented in the GOBLET newsletter
- Look into getting ISBN number for newsletters

Fundraising Committee Actions

- Working from Ann's funding/sponsorship opportunity document, solicit funding for GOBLET
- Clarify financial position with GOBLET Treasurer
- Define role of Fundraising Committee, and be clear on what GOBLET would like funded

Standards Committee Actions

- Create a task force for Bioschemas work = Michelle, Celia, Annette, Terri, Brane, Victoria & Niall
- Work with Niall on Bioschemas tasks

Bioschema Task Force Actions

- Draft specifications for course/course instance/training materials
- Refine and agree upon specifications
- Write a paper and publish specifications for Course/Course Instance/Training Materials

- Push specifications into schema.org

All Participants Actions

- If you volunteered to be on a committee or join an activity, please contact the committee and get involved