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## WLAN Access

Network: Citizen Science  
Password: ECSA2016



## Hashtag

#ecsa2016

## Website

[www.ecsa2016.eu](http://www.ecsa2016.eu)



Dear Conference Participants,

Welcome to the First International ECSA Conference Citizen Science – Innovation in Open Science, Society and Policy on 19–21 May 2016 in Berlin!

This meeting will celebrate the great achievements of the European Citizen Science Association (ECSA) within its first two years of establishment. ECSA has already formed a magnet to bring together citizen scientists all across Europe and has fostered new collaborations, also with our partners overseas. We welcome you to our beautiful city of Berlin and hope the Kulturbrauerei will form the right venue for fostering new ideas, stimulating discussions, meeting colleagues and moving the field of citizen science forward.

This transdisciplinary conference is aimed at scientists, practitioners and policy makers to highlight, demonstrate and debate the innovation potential of citizen science for science, society and policy. This is the opportunity to showcase how both new and traditional ways of citizens working with scientists can transform the science-policy interface, foster scientific advancement and enable scientific literacy and empowerment in society. Of particular importance is the role of how citizen science can contribute to wider agendas such as open science, as well as responsible research and innovation.

We hope you will find this an inspiring conference to meet other enthusiasts for Citizen Science, to exchange experiences and to possibly form new collaborations. We are grateful to all who made this conference possible! As an open science conference we received many more abstracts for talks than could be scheduled within the available time, and the panel and session chairs did their best to accommodate the wide range of expertise within the sessions and the exciting market place during lunchtimes. We hope the evening reception at the Museum für Naturkunde Berlin will provide a great opportunity to mix, to meet the ECSA board and ECSA working groups as well as the editors of the new Citizen Science Theory & Practice journal. The ECSA General Assembly will consolidate the institutional development of ECSA and everyone is invited to join. We hope that the ThinkCamp will provide a fun format to enable collaboration between participants and the wider DIY Science and Maker communities, around a number of Citizen Science Challenges. Finally, the Citizen Science Fest will invite all to experience and celebrate local citizen science projects in Berlin.

The conference is hosted for ECSA by the ‘Citizens create knowledge – knowledge creates citizens’ GEWISS project through the Helmholtz Centre for Environmental Research – UFZ, the German Centre for Integrative Biodiversity Research (iDiv) Leipzig-Halle-Jena and the Museum für Naturkunde Berlin and 18 international partners: Berlin-Brandenburg Institute of Advanced Biodiversity Research – BBIB, British Ecological Society, Centre for Ecology and Hydrology – CEH, Earthwatch Institute, UCL Extreme Citizen Science group (ExCiteS), Fondazione Grosseto Cultura, Haus der Zukunft Berlin, Helmholtz Association, Institut national de recherche en sciences et technologies pour l’environnement et l’agriculture – Irstea, Leibniz Centre for Agricultural Landscape Research (ZALF), Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Leibniz-Institute for Zoo and Wildlife Research (IZW), Ministry of Research Austria – Top Citizen Science Programme, The Natural History Museum London, Natural History Museum of Maremma, Natural History Museum of Paris, Wissenschaft im Dialog – WID and the Zoological Research Museum Alexander Koenig Bonn. We are also grateful for the financial support by the German Research Foundation (DFG).

We wish you lots of stimulating discussions, networking and fun moments with like-minded people.

Looking forward to seeing you in Berlin!

*Aletta Bonn, Susanne Hecker, Muki Haklay, Lucy Robinson, Marisa Ponti, Malene Bruun, Claudia Goebel, Margaret Gold, Franz Hölker, Heribert Hofer, Lucy Patterson, Jose-Miguel Rubio-Iglesias, Andrea Sforzi, Jennifer Shirk, Katrin Vohland, Wiebke Volkmann, Thorsten Witt, Irene Schütz & Johannes Vogel* | Conference organizing committee



Dear European and international Citizen Science Community,

We are happy and proud to share so many successes with you – Citizen Science becomes a more and more accepted and valued approach – in science as well as in society and politics. Citizen Science developed into a global movement, visible through the different networks arising and increasingly also formalizing. The European Citizen Science Association is a good example for this trend of professionalisation developing from an inspirational idea based on the OPAL experiences from Great Britain into a thriving organization with 130+ institutional and individual members from about 30 countries, and a much broader network of supporters. But not only the number, diversity and sophistication of experiments with participation in science grow, also reflection and research on different aspects of citizen science is gaining ground: How to deal with legal aspects of Citizen Science data? How to improve conditions for mutual learning? How does the relationship between different societal actors change? Are just some questions that Citizen Science practitioners are addressing in their work and through organizations, such as ECSA, CSA, and ACSA.

It is our utmost pleasure to welcome you – experts, community builders, and change makers – in Berlin for an exciting international conference! We'd like to thank everybody who has helped to make this event happen, in the first place Aletta Bonn, Susanne Hecker and the conference committee, as well as Claudia Göbel with her incredible support in developing ECSA, together with everybody else engaged in boards, committees, working groups, or in other activities for ECSA. We'd like to use this occasion to engage your knowledge, experiences, and action capacity for taking the international cooperation in Citizen Science some decisive steps further by:

1. Developing a joint understanding of Citizen Science and the diversity of its realizations. We are looking forward to exchange experience and develop further what we understand under "best practice" building on the 10 Principles of Citizen Science that have been developed within one of our ECSA Working Groups and translated in 20 different languages (17 published, 3 under way). The Principles are providing a bright picture of the values and diversity of Citizen Science in Europe – we can't wait to see more of such materials for different topic areas and to jointly address global questions.
2. Establishing and strengthening the scientific community around citizen science. The reflections from different scientific disciplines as well as practitioners, including the social sciences and humanities, science communication, politics, law etc. are of central importance to the practice and future of Citizen Science. They will help the Citizen Science movement to evolve, become more sustainable and to critically reflect upon the impact of the approach as well as on the underlying assumptions.
3. Reaching the public. Citizen Science still has much more potential than is currently realized. Despite the variety of offers to spend time and money for leisure activities, many people are interested in science and would like to contribute something meaningful to society. A big conference such as this one offers a great opportunity to reach the media – and the general public during the Citizen Science festival.

Joining forces on these and other common issues, we believe, is a great way to show that the current rise in attention for Citizen Science is not so much a hype but rather improved recognition of the substantial and solid work done by the international practitioner community. As Chairs of ECSA, we'll work hard to support this work, increase its visibility, and facilitate cooperation to advance the diversity, quality and impact of Citizen Science for the future.

We are happy and proud to see ECSA and the international Citizen Science movement growing and wish us all an inspiring conference!

*Katrin Vohland & Johannes Vogel*

ECSA Executive Board

Museum für Naturkunde Berlin



# Keynotes

**Aletta Bonn** Helmholtz Center for Environmental Research – UFZ, German Centre for Integrative Biodiversity Research (iDiv), ECSA, GEWISS, Germany, **Katrin Vohland** Museum für Naturkunde Berlin, Germany & **GEWISS team**  
**Citizen Science strategy and impact development in Germany** | Thur 16:45 h



Citizen Science is both an old and new field of citizen engagement in research, while not always acknowledged and supported as a strong pillar for science and society. To foster development, innovation and strategic support for citizen science, a Green Paper for a Citizen Science Strategy 2020 for Germany was developed. The framework outlines 10 major fields of activities e.g. related to data rights, training, and communication or funding, for actors in society, science and policy. These were developed in discussions in an open dialogue forum with a series of workshops from 2014-2016 and a nationwide online and written consultation process with more than 700 participants from over 350 organizations within the consortium project ‘Citizens create knowledge – knowledge creates citizens’ (GEWISS). Here, we report on the process of the strategy development and joint working towards capacity building in Germany and discuss outcomes to foster scientific and social impact of citizen science.

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**Rick Bonney** Cornell Lab of Ornithology, Ithaca, New York, USA

**Citizen science – innovation & inspiration for science** | Fri 09:10 h



Engagement of the public in authentic scientific inquiry, often called citizen science, is a powerful research technique that can have many important outcomes for education, public understanding of science, influence on policy and conservation, and closer science/society relationships. Sometimes forgotten, though, is that high-quality citizen science is truly good science, and that it can yield scientific outcomes equal to or even greater than conventional science working by itself. This talk will describe the evolution of a simple idea—that the public can and should have a role in science—and show how that idea is resulting in many kinds of scientific outcomes ranging from natural history observations to volunteer monitoring to hypothesis-driven research to large-scale data analysis.

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**Muki Haklay** University College, London, UK

**Participatory Citizen Science** | Fri 10:10 h



At the inaugural ECSA conference, we are exploring the intersection of innovation, open science, policy and society, and the ways in which we can establish new collaborations for the common good. The terms ‘participation’ and ‘inclusion’ are especially important if we want to fulfil the high expectations from citizen science, as an harbinger of open science. In the talk, the conditions for participatory citizen science will be explored – the potential audience of different areas and activities of citizen science, and the theoretical frameworks, methodologies and techniques that can be used to make citizen science more participatory. The challenges of participation include designing projects and activities that fit with participants’ daily life and practices, their interests, skills, as well as the resources that they have, self-beliefs and more. Using lessons from EU FP7 projects such as EveryAware, Citizen Cyberlab, and UK EPSRC projects Extreme Citizen Science, and Street Mobility, the boundaries of participatory citizen science will be charted.

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**Heribert Hofer** IZW Berlin, Germany

**Co-designing research projects: Citizen Science meets stakeholder involvement** | Sat 9:10 h



Co-design or co-creation, the joint design of research projects by academic scientists and the public, is sometimes viewed as the most desirable level of citizen involvement in scientific research because it increases “relevance” and addresses “societal interest”. Is the general public sufficiently interested (and perhaps knowledgeable) to participate when invited? Experience with disappointing responses to some such invitations suggests that this assumption may not always hold. I will argue that, rather than trying to involve the general public, targeting specific stakeholder groups will be more beneficial. This is because stakeholders are, from their own perspective, knowledgeable about the subject at hand and highly motivated; therefore they will overcome the “inhibition threshold” and make meaningful contributions. Biases towards specific stakeholder-driven assertions can be avoided by inviting all relevant interest groups.

By definition, stakeholders are societal groups whose interests are affected by a particular issue. I will use examples from the long-standing experience of the IZW to illustrate that both research scientists and society benefit if co-design involves such interest groups. For scientists, it will facilitate recruitment of participants, since groups who are affected are motivated to contribute their views and needs. Professional researchers will also obtain pertinent input, since stakeholders – in contrast to uninvolved members of the general public – have expert practical knowledge about the issue at hand. Finally, integrating stakeholder input in the design of the project will directly improve the practical relevance of the research. For stakeholders, the process of co-creation is rewarding, since they feel they make well-informed contributions, understand why the scientific research is undertaken and because they will benefit directly if the research addresses their specific needs. Lastly, I will show that projects with lower levels of involvement can evolve towards co-creation by increasing both the knowledge and interest of participants, effectively turning them into stakeholders.



# Keynotes

**Jose-Miguel Rubio** Policy Officer at the Directorate General for Research and Innovation of the EC

**Citizen science – Connecting to the Open Science Agenda** | Thur 11:30 h

Citizen Science has a long and distinguished history, yet its role is increasing even further now in the digital age. It is an important component of Europe's Open Science and research agenda, with the potential to transform how science is done and to narrow the gap between Europe's citizens, researchers and policy makers. This presentation will review the current situation and look forward to the next steps in both policy making and also in terms of practical support.

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**Roger Owen** Head of Ecology, Scottish Environment Protection Agency, UK | Thur 11:40 h

Citizen Science has an important role to play in how EPAs and other agencies of government gather evidence and intelligence on the environment. In addition, volunteer monitoring is seen as a significant way to engage citizens and to inform environmental policy. The EPA network has encouraged the setting up of a Task Group to take forward best practice and information exchange on citizen science.



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**Lucy Robinson** The Natural History Museum London, UK

**Ten principles of citizen science** | Fri 9:40 h

The rapid expansion of citizen science programmes globally presents us with incredible opportunities but also some challenges. Citizen science is a flexible concept which can be adapted and applied within diverse situations and disciplines. How do we create cohesion and identify a common purpose globally, whilst also supporting and enhancing the independence, creativity and bottom-up nature of citizen science?

Networks such as ECSA (Europe), CSA (global), ACSA (Australia) and others provide forums through which to exchange knowledge and ideas, identify shared goals and build partnerships together. In 2015, the ECSA working group on Sharing best practice and building capacity in citizen science developed a document outlining Ten Principles of Citizen Science – a series of statements that set out the key principles which, as a community, we believe underlie good practice in citizen science, regardless of the academic discipline or country in which it is applied. Utilised globally and available in 20 languages (17 published, 3 under way), the Ten Principles provide a starting point for discussion and debate. Here, I introduce the Ten Principles, challenge them, and consider how they may challenge us and our current working practices. I also look to the future, examining how we as a network can build capacity and support one another to advance our citizen science programmes, maximising the benefits for science, for citizen scientists, and for wider society.



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**Katrin Vohland** Museum für Naturkunde Berlin | Leibniz Institute for Evolution and Biodiversity Research | Vice Chair ECSA, GEWISS, Germany

**A vision for citizen science in Europe** | Thur 11:30 h

Citizen Science is becoming a global movement. Albeit there is a long history in the cooperation between lay persons and professionals only now its social benefits and transformative power are subjects of political and scientific debates. Citizen Science grows as a network of different players, and is in some kind of self-identification process, visible in the debates about quality criteria, discussions about the role of humanities in citizen science, or the relationship to the concept of Responsible Research and Innovation (RRI). Citizen Science walks on the ridge to be inclusive in order to be meaningful for larger parts of the society and to be exclusive in order to build up advocative power on the policy level. All over the world, loose networks become institutionalized in order to exchange experience, enhance synergies with regard to infrastructure development, and to increase significance. Along with this, citizen science becomes professionalized; in the European Citizen Science Association ECSA, we have currently over 130 members from about 30 countries, and we developed and published 10 principles of citizen science. In Germany, with support from the Federal Ministry of Education and Research, we organized within the framework of the GEWISS project a strategic, deliberative process developing a citizen science strategy for Germany. Also self-reflection increases, more and more research on citizen science and its effects is conducted. At this first international ECSA conference, we address citizen science for policy, science, and society, and we further will enrich the vision developed within ECSA that citizen science becomes a meaningful and inspiring approach for sustainable development with all the examples, ideas, and thoughts exchanged at this conference.



## ECSA – the European Network of Citizen Science Initiatives

The European Citizen Science Association (ECSA) is a non-profit association set up to encourage the growth of the Citizen Science movement in Europe. ECSA was launched during the EU GREEN WEEK in June 2013 and is administered by a Secretariat hosted and mentored by the Museum für Naturkunde Berlin. From an informal network of researchers and communicators interested in Citizen Science, ECSA has grown into the European reference network of Citizen Science initiatives. It draws on 130+ individual and organizational members from about 30 countries, including EU member states, Switzerland, the U.S., Israel, Australia and New Zealand. Members represent a mixture of NGO's, universities, research institutes, museums and other local and national Citizen Science groups and cover different fields, such as biological science, do-it-yourself approaches, environmental mapping and social sciences.

**Our Mission** is to connect citizens and science through fostering active participation.

**Our Vision** is that, in 2020, citizens in Europe are valued and empowered as key actors in advancing knowledge and innovation and thus supporting sustainable development in our world. Citizen Science is a recognized, promoted and funded approach to foster scientific literacy and the democratization of scientific expertise, to increase the social relevance and sustainable impact of research and to improve the evidence base for environment, biodiversity and climate change policy in Europe and globally.

ECSA builds on the substantial expertise of its members in order to mobilize Citizen Science as means for evidence-based sustainable development. As spelled out in our strategy, ECSA will conduct research and support refinement of methodologies, increase capacities and develop three interrelated **key competencies**:

- Promoting Sustainability through Citizen Science,
- Building a Think Tank for Citizen Science,
- Developing Participatory Methods for Cooperation, Empowerment and Impact.

We work hard to steadily increase and diversify our **spectrum of activities**. The central event is the annual **General Assembly** organized as a conference for members and interested parties to present their work, network and decide on the future of the association. ECSA conducts **capacity building and training workshops** and **develops tools and resources** for the citizen science community in accordance with research and coordination projects we're involved in. In addition, ECSA offers **communication services**, such as the bi-monthly newsletter, participates in **events**, conducts **community building** activities and builds **partnerships**. We also engage in **international cooperation** with organizations such as the U.S.-based Citizen Science Association (CSA), the Australian Citizen Science Association (ACSA) or the United Nations Environment Programme that manifest in joint conferences, publications, tools, working groups, etc.

Apart from those general activities, thematic **ECSA working groups** undertake the major part of our activities throughout the year. They focus on research, exchange of experience and capacity building and are open to our members and supporters. Currently there are working groups on:

### Sharing Best Practice and Building Capacity Committee

Chaired by *Lucy Robinson* Natural History Museum London, United Kingdom

This working group aims to promote high quality citizen science by sharing existing examples of good practice, developing practitioner guides and other documents to support the citizen science practitioner community, and bringing together all parties involved in citizen science to develop partnerships, share resources and experiences, and build capacity within the sector.

### Projects, Data, Tools, and Technology Committee

Chaired by *Jaume Piera* Institute of Marine Sciences at Consejo Superior de Investigaciones Científicas, Spain

This group is trying to formalize a common understanding of interests in the Citizen Science data space, analyzing problems that Citizen Science projects face regarding data, such as interoperability, data reliability (e.g. how Citizen Science data can be trusted and plugged into environmental regulation and monitoring requirements from governments), privacy, or data intellectual property rights. To do so, the group is establishing collaborations with other technical organizations (such as the Open Geospatial Consortium –OGC-) or other Citizen Science Associations (CSA, ACSA).



## Policy, Strategy, Governance and Partnerships Committee

Chaired by *Martin Brocklehurst* Kempley GREEN Consultants, United Kingdom

This working group has the aim of informing on and advocating for the value of Citizen Science for achieving policy goals such as understanding and enriching the environment, dealing with the effects of climate change, enhancing the public's relationships with research and with the natural world. It seeks to promote the benefits and impacts of Citizen Science to policymakers and those who influence them, to collect case studies and research evidence about policy outcomes of Citizen Science activities, as well as to represent policy-related goals and achievements to ECSA's members and governance structures.

## Communication and Events Committee

Chaired by *Dacha Atienza Ariznavarreta* Museu de Ciències Naturals de Barcelona, Spain

This group has a two-fold mission: to support ECSA in implementing and refining its communication strategy as well as to promote the exchange of good practice on communication in the context of citizen science activities between ECSA members.

## Funding and Marketing Committee

Chaired by *Marisa Ponti* University of Gothenburg, Sweden

This working group supports ECSA through further developing its funding strategy and processes, coordination of proposal writing in specific cases, as well as through exploring crowd funding for the association.

## Citizen Science and Responsible Research and Innovation (RRI) Committee

(provisional status until adopted by the ECSA General Assembly)

Chaired by *Fermin Serrano Sanz* Fundacion Ibercivis, Spain

This working group aims to support RRI practices in Citizen Science and will strengthen the linkages between RRI Tools project and ECSA. It will be focused on maximizing the existing knowledge, tools and to leverage synergies. This WG will instantiate the self-reflection tool of RRI Tools adopting and adapting it for a wide range of citizen science projects.

## How to get involved?

**Become an ECSA member and enjoy a range of benefits**, such as access to the key European network of Citizen Science initiatives from diverse disciplinary and organizational backgrounds, realization of joint projects, access to news and information on ECSA and members' activities as well as the possibility of promoting your projects and events through the ECSA website, participating in ECSA events at a reduced rate, and not least the chance to help advance and shape our ambitious initiative.

**Join the ECSA network and support the initiative** – ECSA nurtures a broad network of research organisations, policy and decision makers, civil society organisations, SMEs and other change makers worldwide.

Find more information about ECSA and additional possibilities for engaging with the association on our website.

### Get in touch!



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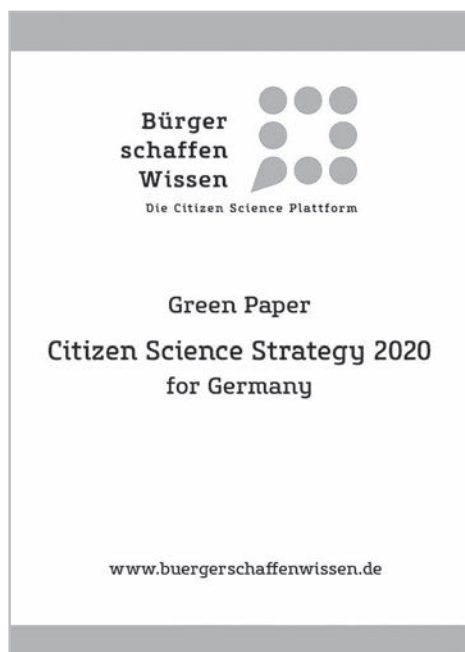
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## Capacity building for citizen science in Germany: Citizens Create Knowledge – Knowledge Creates Citizens (GEWISS)

The capacity building programme “Citizens Create Knowledge (GEWISS)” supports and develops citizen science in Germany, funded by the German ministry of research and education (BMBF). The joint project led by a consortium of scientific institutions of the Helmholtz and Leibniz Association and their university partners and advised by an interdisciplinary advisory board enables a networking platform for researchers from all disciplines, citizens, civil society organizations, and scientific institutions in Germany. All sharing a great interest in citizen science. The project hosted a dialogue forum with more than 10 workshops addressing key questions on the requirements, applicability and development of citizen science. One of the core achievements of the projects, the Green Paper on the Citizen Science Strategy 2020 for Germany, was officially launched and presented to the citizen science community at the GEWISS citizen science forum in March 2016. This Green Paper was developed through the participation of over 700 people from 350 organisations, scientific institutions, learned societies, non-governmental organisations and civic societies, as well as private individuals in a series of workshops within the GEWISS dialogue forum, an online consultation process and over 50 submitted position papers. The project also created an online wiki toolkit for practitioners to implement and guide citizen science projects. In addition, GEWISS developed several technical and organisational resources, such as training workshops and a short film clip to aid the conception and implementation of citizen science projects. As part of the project, the online platform [www.buergerschaffewissen.de](http://www.buergerschaffewissen.de) was established to allow citizen science projects to present their projects and to encourage interested citizens to participate. In addition, the platform serves as a resource to promote networking and exchange for those engaged in citizen science.

The networking activities and the exchange of ideas and experiences in the field of citizen science over the last two years led to the enhancement of citizen science in Germany. Importantly, together with other citizen science initiatives, the project contributed to a better understanding of the challenges and opportunities of citizen science in Germany and the community building of actors from science, society and policy. We hope the German community can actively engage with international partners to further discuss and develop the field of citizen science and its innovation potential.



Bonn, A., Richter, A., Vohland, K., Pettibone, L., Brandt, M., Feldmann, R., Goebel, C., Grefe, C., Hecker, S., Hennen, L., Hofer, H., Kiefer, S., Klotz, S., Kluttig, T., Krause, J., Küsel, K., Liedtke, C., Mahla, A., Neumeier, V., Premke-Kraus, M., Rillig, M. C., Röller, O., Schäffler, L., Schmalzbauer, B., Schneidewind, U., Schumann, A., Settele, J., Tochtermann, K., Tockner, K., Vogel, J., Volkmann, W., von Unger, H., Walter, D., Weiskopf, M., Wirth, C., Witt, T., Wolst, D. & D. Ziegler (2016): Green Paper on a Citizen Science Strategy 2020 for Germany. Helmholtz Centre for Environmental Research (UFZ), German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Leipzig, Museum für Naturkunde Berlin, Leibniz Institute for Evolution and Biodiversity Science (MfN), Berlin-Brandenburg Institute of Advanced Biodiversity Research (BBIB), Berlin.





In 2014, the three citizen science Associations of Australia (ACSA), Europe (ECSA) and the US (CSA) agreed to work closely together. Together we aim to:

- Support citizen science activities at various scales
- Facilitate communities of practice for citizen science
- Enhance the quality of citizen science
- Facilitate international exchange of ideas and best practices
- Promote the value and impact of citizen science

To realize these shared goals we agree to work together on the following global efforts:

1. The international journal Citizen Science: Theory and Practice
2. International Citizen Science conferences
3. Web-based services and resources



## Vision

to develop 'A community that supports, informs and develops citizen science'.

## Mission

to advance citizen science through sharing of knowledge, collaboration, capacity building and advocacy for citizen science.

1. ACSA encourages broad participation in citizen science through facilitating partnerships.
2. We are a community of best practice, knowledge and tools that works to ensure the value and impact of citizen science and its outputs are realised.
3. We work towards ensuring ACSA is an effective, trusted and well recognised organisation and hub for citizen science in Australia.
4. We are focused on delivering on 5 key actions: Participation; Partnerships; Practice; Impact and Platform(the strength of ACSA).
5. ACSA fosters an inclusive, inspiring and collaborative citizen science community through its citizen science initiatives.

## Current key messages

- ACSA recognises and promotes that citizen science is an increasingly important way of engaging the community in scientific research and will work to further wide engagement with citizen science.
- We will continue to promote that citizen science can demonstrate that it is able to provide rigorous information that can be used by Government agencies, local government, industry sectors businesses, research and the community to inform decision-making.
- ACSA has a strategic plan that outlines its vision, mission and goals.
- Over the next year ACSA will continue to develop its communication strategy and work to support national citizen science projects and partnerships.
- ACSA will also develop its membership framework and business model to sustain our citizen science work over the long term.
- ACSA has strong linkages with the European and American citizen science associations (ECSA and CSA).
- ACSA has a strong role within Australia as a hub and network for discussion, advocacy and networking, in order to help develop ideas, innovations and to harmonise initiatives and outputs, seeking to reduce duplication of initiatives which is a risk in this fast moving space and to increase value through larger data sets.



The Citizen Science Association (CSA) emerged in 2012 to engage the diverse and rapidly growing community of practitioners who advance public participation in scientific research. CSA aims to foster collaboration, community, and credibility across this field by building services that share, and support the use of, evidence-based practices from multiple disciplines and traditions.

As of May 2016, CSA has more than 4,000 members--from over 70 countries--who represent a broad diversity of institutions, organizations, and areas of research. Members include project participants, developers, academics, educators, data managers, and more. CSA's leadership is equally broad; the organization is managed by a Board of 12 and supported by volunteer Working Groups, with international membership, which advance thinking on topics such as ethics; metadata standards; evaluation; and integrity, diversity, and equity.

CSA services currently include a monthly newsletter, as well as access to a broad network of citizen science practitioners through a discussion listserv, a journal, and a conference. Association membership is currently free.

More information about the Citizen Science Association and its services can be found at [CitizenScience.org](http://CitizenScience.org).



## CITIZEN SCIENCE: THEORY AND PRACTICE

*Citizen Science: Theory and Practice* is an interdisciplinary and international journal, sponsored by the Citizen Science Association in cooperation with the European Citizen Science Association and the Australian Citizen Science Association, which is focused on understanding citizen science in all its facets—development and implementation of a successful citizen science project; communication of a project's results and measurement of its success; and critical examination of the many ways that citizen science can yield outcomes for both science and society. The journal's intended audience is practitioners and researchers in the wide array of scientific disciplines that are undertaking citizen science projects as well as disciplines that are studying its practice. Thus, the journal welcomes for submission any scholarly paper focused on the practice, social or educational outcomes, and/or theoretical underpinnings of citizen science.

The first issue of the journal (Volume 1, issue 1) was in press when this conference programme was printed, and the editors truly hope that it will have been published by the time the conference starts. If not, it will be published very soon afterward. The journal has been launched by a team of editors, associate editors, editorial board members, and reviewers, and we are always looking for more help!

### Co-Editors:

- Rick Bonney, Cornell Lab of Ornithology, Ithaca, NY, USA
- Caren Cooper, North Carolina Museum of Natural Sciences, Raleigh, NC, USA
- Heidi Ballard, University of California, Davis, CA, USA

### Associate Editors:

- Muki Haklay, University College London, UK
- Karen Oberhauser, University of Minnesota, Minneapolis, MN, USA
- Gretta Pecl, University of Tasmania, Australia
- Helen Roy, Center for Ecology and Hydrology, UK
- Rob Stevenson, University of Massachusetts, Boston, MA, USA
- Martin Thiel, Universidad Catolica del Norte, Chile

For the full list of editorial contributors, information on how to submit, and free access to all content, please visit

<http://theoryandpractice.citizenscienceassociation.org>.

**Co-editor Rick Bonney will be at the Journal CS THEORY & PRACTICE networking table 2 from 20:25 – 20:55 h during the Welcome Reception in the Museum für Naturkunde Berlin on Thursday.**

He will be pleased to discuss ideas for submissions of papers with any conference attendees. He also looks forward to meeting people interested in helping with reviewing or editing manuscripts.



# Special Events

## Welcome Reception

Thursday, 19 May, 19:15–22:00 h | Museum für Naturkunde Berlin

For a pleasant finish of the first conference day, the Museum für Naturkunde Berlin warmly invites participants to continue discussions with food and drinks at the feet of dinosaurs. The idea of this evening is to create an informal space for getting to know each other and current activities of ECSA, our members and partners. After a brief welcome and scene setter, we'll have three half-hour networking sessions with dedicated tables including

- Joint Citizen Science action on the Zika virus
- Journal "Citizen Science: Theory and Practice"
- How to engage with ECSA in the upcoming H2020 projects "Landsense" and "DITOs"
- COST Action Citizen Science to Promote Creativity, Scientific Literacy, and Innovation throughout Europe
- Engage with the ECSA Working Groups on Policy and on Data, Tools and Technology
- International co-operation on Citizen Science Data and Metadata Interoperability
- Meet the ECSA Board
- And more!

Parts of the museum exhibition, including the one with our stunning T-Rex "Tristan – Berlin bares Teeth", will be open for a walk. Looking forward to seeing you there!

*How to get there: After the closing on Thursday (18:00 h), please join our helpers to get from our conference venue Kulturbrauerei to the Museum für Naturkunde Berlin by public transport. Tickets will be provided. Address: Museum für Naturkunde, Invalidenstraße 43, 10115 Berlin. Please take tram no. M 10 from stop Eberswalder Straße to the stop Naturkundemuseum.*



# Special Events

## ECSA General Assembly 2016

Friday, 20 May, 16:30 – 19:00 h | Conference Venue, Kesselhaus



Dear ECSA members, supporters, and interested guests,

We are delighted to invite you to the ECSA General Assembly 2016 on Friday, May 20<sup>th</sup> 2016, at the international ECSA conference. The General Assembly is ECSA's main annual event and decision making body of the association. We're looking forward to address the following items with you:

- Annual report 2015 & update on-going activities
- Future strategy & ECSA Working Plan 2016/17
- Approval of budget for 2016 and 2017 & determination of membership fees
- Reports of ECSA Working Groups & adoption of new Working Groups
- Election of ECSA Executive Board
- Election of ECSA Board of Directors
- Election of new Advisory Board Members
- ECSA General Assembly 2017

You can find an updated programme, reference documents and lists of candidates on the ECSA website: <http://ecsa.citizen-science.net/>

## Citizen Science Disco

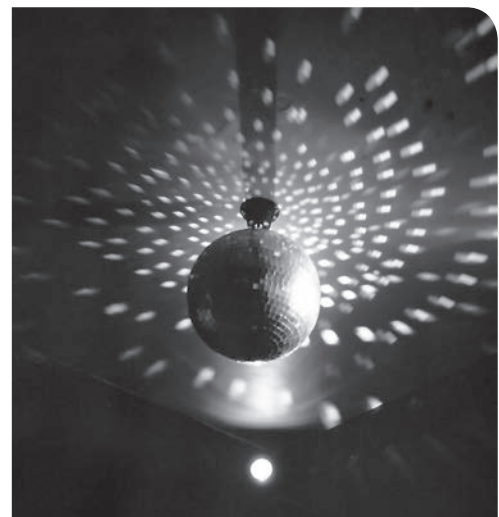
**Social event with local Berlin grassroots science communities. Lightning Talks, Intro to Citizen Science ThinkCamp, Drinks & Flammkuchen.**

Friday, 20 May, 19:00 h | Conference Venue

This will be an open social evening to kick back, get inspired and make connections. The invitation will be extended to the local Berlin grassroots science communities and we will have a line-up (to be announced) of inspiring lightning talks from interdisciplinary co-created community projects, both local and international, followed by the chance to mingle and make new friends. This event includes free snacks, a cash bar, and a live DJ following the talks.

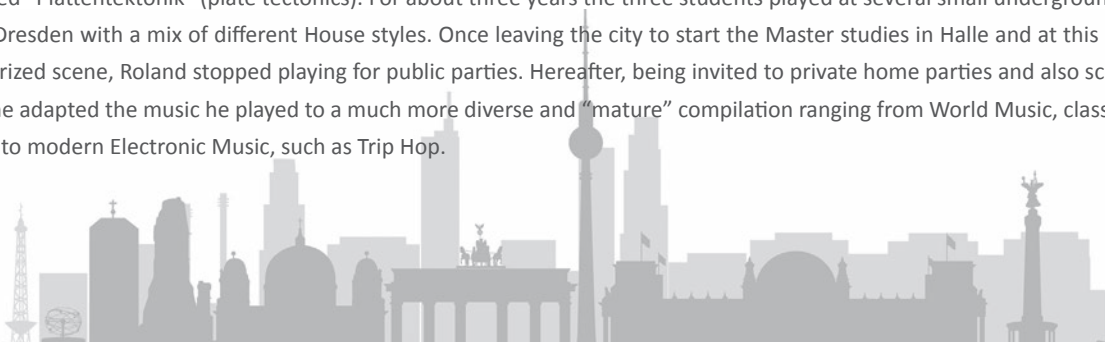
Hosts: *Lucy Patterson* Science Hack Day Berlin, Germany; *Margaret Gold* The Mobile Collective, UK.

Music: *DJ Audiodiversity*



For Roland Krämer alias Audiodiversity music was always an essential company since he started ballroom dancing at the age of six. However, at some point solely listening and “using” the music was not enough. Therefore Roland started DJing at home with a set of 25 Techno vinyl records in 2001. The first years, together with friends, he played at small private parties in several basements, mostly consisting solely of the DJs itself, battling each other. Shortly after starting his studies in Dresden in 2005, together with two dorm mates Roland formed a DJ-

Team named “Plattentektonik” (plate tectonics). For about three years the three students played at several small underground clubs and parties in Dresden with a mix of different House styles. Once leaving the city to start the Master studies in Halle and at this also leaving the familiarized scene, Roland stopped playing for public parties. Hereafter, being invited to private home parties and also scientific conferences, he adapted the music he played to a much more diverse and “mature” compilation ranging from World Music, classic Rock and Pop tracks to modern Electronic Music, such as Trip Hop.



# Special Events

## Citizen Science ThinkCamp



Saturday, 21 May, 11:00 h | Conference Venue, Kesselhaus

The ThinkCamp is an ‘unconference’ style event-within-the-event, to which the local Berlin grassroots science & maker communities are invited to collaborate together with Conference attendees on a number of Citizen Science Challenges (please see page 22).

The style is similar to a World Cafe, with an emphasis on providing an open and creative environment for working together on new ideas, Citizen Science projects, and technology platforms.

It’s a great opportunity to work together with people with different perspectives, skills, and expertise – not to mention getting fresh inspiration, meeting potential new collaborators, and even getting involved in exciting new projects!

Facilitators: *Muki Haklay* UCL, UK; *Lucy Patterson* Science Hack Day Berlin, Germany; *Margaret Gold* The Mobile Collective, UK

## Berlin Citizen Science Fest

Saturday, 21 May, 17:00 – 23:00 h | Berlin’s Gleisdreieck Park

At the close of the ECSA Conference, ECSA and conference partner Wissenschaft im Dialog warmly invite you to an interactive Citizen Science Fest. In a Citizen Science Safari, visitors to Berlin’s Gleisdreieck Park will be led on a discovery tour to experience the research process and findings of a diverse array of citizen science projects. The festival is open to the intellectually curious of all ages from 5 pm to 11 pm.

Organisers: *Thorsten Witt, Wiebke Volkmann & Irene Schütz* Wissenschaft im Dialog, Germany

## Promenade Tempelhofer Feld – Public Space in the City

Nowhere the clouds are higher and the look further than on the Tempelhof Feld. Our walk through the largest outdoor exhibition area of the city combines history and modernity, politics and pioneering spirit, sports, culture, art and sweet idleness. In this experiment citizen participation plays a major role. We will visit an urban gardening project and a culture project, we will talk about our own experience as citizen knowledge project at Tempelhof Feld. And we will report on the petition for a referendum and the law developed from the referendum itself. Current result is the development and care plan, which is committed to the Senate of Berlin at May 18<sup>th</sup>.

Start: 5 pm at main entrance Tempelhofer Damm

Duration: 1.5 – 2 h

End: 7:30–8:00 pm at Pioneerproject Nuture Mini Art Golf (Columbiadamm).

Public Transport: U-/S-Bahnhof Tempelhof (Underground/U-Bahn 6, Surburban Train/S-Bahn 41, S2, S5, S6, Bus 140, 184)

Max. number of participants: 30

## Eat your city

Eat your city – literally! Did you know there are over 500 edible plants growing right under your nose? Learn how to identify, harvest and prepare delicious edible herbs, flowers and fruits growing right in the city of Berlin. During the two hour walking tour you’ll learn how to make your own fresh leaf salad plucked from your immediate surrounds and topped with the mouth-watering (Mundraub) dressing. Tracking lost and forgotten fruit trees throughout the hippest parts of the city, your host “Mundrauber” Magda will open your eyes to the art of urban foraging showing you that many of the young tender green leaves you see around you are edible, healthy and tasty too! You’ll learn all you have to know to be a legal and sustainable forager and discover to a whole new world of fresh sustainable food! See the city with new eyes that can be as big as your stomach! Go to [Mundraub.org](http://Mundraub.org) for more info.

Start: 16:30 h pm at conference venue Kulturbrauerei; walking tour

Max. number of participants: 25



## **Citizen Science – Demonstrating Success** | Thur 11:50 h

Chair/Organiser: *Susanne Hecker*, Helmholtz Centre for Environmental Research – UFZ | iDiv, Germany

The international ECSA conference offers the opportunity to highlight, demonstrate and debate the innovation potential of citizen science for science, society and policy and its role within open science and innovation. Through active collaboration of citizens and scientists in research, citizen science programmes can contribute valuable information that can be used to develop and deliver policies, improve understanding and respond to many of the challenges facing society today.

In this panel “Citizen Science – Demonstrating success” we want to share experiences with citizen science projects and initiatives from diverse fields and different focuses to showcase the innovation potential of citizen science to science and society.

## **The diversity of citizen-science technologies: traditional and new opportunities for interactive participation in scientific research** | Thur 14:45 h

Chairs/Organisers: *Franz Hölker* IGB, *Luigi Ceccaroni* 1000001labs & *Jaume Piera* Institut de Ciències del Mar

When coupled with emerging technologies, citizen science has the potential to expand the frontiers of education, scientific research and public engagement, because new developments in technology, data processing and visualization, and communication of ideas and results are creating a wide range of opportunities for interactive participation in scientific research. While citizen science can be successfully conducted in a traditional, analog environment, the increasing availability of information technologies has made it easier to interact with more people and to expand the scale and scope of data collection and information delivery. Especially, the widespread use of mobile internet provides an opportunity for mass participation in projects contributing to scientific research. These projects make citizen-science data available, and offer tools to visualize and analyze the measurements, thus allowing citizen scientists to take new active roles beyond collecting data.

## **Innovative approaches to civic engagement, learning & education** | Thur 16:00 h

Chair/Organiser: *Taru Peltola* French National Institute for Environmental and Agricultural Science and Research

The panel addresses the transformative nature and potential of collaborative research to generate new ideas and innovation in a broad sense. It discusses citizen participation from the perspective of education, sharing and learning, and enlarges the perspective from factual and instrumental learning outcomes to the redistribution of knowledge, skills and roles within extended research collectives. It introduces challenges of civic engagement, and demonstrates techniques and tools to encourage various different citizen groups from school children to specialists to volunteer and to take responsibility for the challenges that humankind is facing. The panel also highlights how scientists can engage with volunteers in new ways, and widen the forms of inquiry by challenging established knowledge and methods.

## **Citizen Science as an input for better policy formulation & implementation**

Thur 17:00 h

Chairs/Organisers: *Jose Miguel Rubio* & *Susana Nascimento* European Commission

Citizen science, powered by online and computing tools, offers an effective way to connect EU citizens and policy. Citizens can get involved by taking part in science-related processes and by understanding and directing the changes taking place around them. Such practices have the potential to significantly impact local and national decision-making, empowering citizens and leading to a better and more transparent government. But how can citizens' knowledge and these novel inflows of data practically enhance the policy-making and implementation processes? Studies in UK and Germany demonstrate that there is a vast potential that remains largely untapped, despite Europe having been at the very forefront of Citizen Science. The session presents successful experiences at national, regional and local level that can serve as an inspiration for a more integrated approach at EU level. This process not only helps to re-engage citizens but also empowers them in an era when the bond of trust between civil society, science and policy-making needs to be strengthened.

## **Citizen Science and the role of museums** | Sat 09:40 h

Facilitators: *Zen Makuch* & *Poppy Lakeman-Fraser* Imperial College London, UK

Chair/organiser: *Andrea Sforzi* Natural History Museum Maremma, Italy

Throughout Europe and beyond, amateur natural history study pre-dates the professionalization of science. The majority of Natural History Museums were founded starting from personal collections of amateur collectors. That accounts for a long history of NHMs in amateur and professional collaboration.

This section will be based on the sharing of experience from several European Natural History Museums that have shown significant involvement in citizen science over recent years. It will be also the occasion to identify factors that influence the success of citizen science programmes carried out by NHMs and to consider how the field of citizen science is developing in the framework of these institutions.

The negative effects of climate change, invasive non-native species and many other exogenous factors are having a severe impact on biodiversity globally. At the same time, the availability of expertise and resources is limited, and a change of approach is required. It is hence increasingly important to understand and monitor biological diversity in order to implement effective conservation measures. Museums are well-placed to afford most of these key challenges, and can show some broad CS examples of projects that are trying to tackle them.

Given the long history of natural history museums as a meeting place of professional and amateur scientists, they can play a relevant role in developing innovative Citizen Science programmes and describing the potential of environmental participative research. In this context, Citizen Science constitutes an interesting new source of public engagement for museums.

Time	Lecture Hall KESSELHAUS	Time
09:30	Check-in / conference secretariat opens	09:30
<b>OPEN CITIZEN SCIENCE – POLICY INNOVATION &amp; SOCIAL IMPACT</b>		
11:00	<b>Opening</b> <i>Aletta Bonn</i> Helmholtz Association   German Center for integrative Biodiversity Research (iDiv) – GEWISS, ECSA <i>Katrin Vohland</i> Museum of Natural History Berlin – GEWISS, Vice-chair ECSA <i>Roger Owen</i> Head of Ecology, Scottish Environment Protection Agency	11:00
11:30	<b>Citizen science – Connecting to the Open Science Agenda</b> <i>Jose-Miguel Rubio</i> Policy Officer at the Directorate General for Research and Innovation of the European Commission Panel discussions facilitated by: <i>Jan-Martin Wiarda</i> Germany	11:30
11:50	<b>Citizen Science – Demonstrating Success</b> Chair/Organiser: <i>Susanne Hecker</i> UFZ   iDiv, Germany <i>Josep Perelló</i> OpenSystems, Spain <i>Arnold van Vliet</i> Natuurkalender Netherlands <i>Daniel Dörler</i> citizenscience.at, Austria <i>Doreen Walther</i> Mosquito Atlas, Germany <i>Louise Francis</i> Mapping for change, UK	11:50
13:00	Lunch • Marketplace • Poster session	13:00
14:45	<b>The diversity of citizen-science technologies: traditional and new opportunities for interactive participation in scientific research</b> Chair/Organiser: <i>Franz Hölker</i> IGB Berlin, Germany Co-chairs: <i>Luigi Ceccaroni</i> 10001 labs, Spain & <i>Jaume Pierra</i> Institut de Ciències del Mar, Spain <i>Jaume Pierra</i> Institut de Ciències del Mar, Spain <i>Robert Arlinghaus</i> Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Germany <i>Neil Bailey</i> Earthwatch, UK	14:45
15:30	Coffee & Tea	15:30
16:00	<b>Innovative approaches to civic engagement, learning &amp; education</b> Chair/Organiser: <i>Taru Peltola</i> French National Institute for Environmental and Agricultural Science and Research <i>Michael J.O. Pocock</i> Centre for Ecology & Hydrology, UK <i>Reinhold Leinfelder</i> Haus der Zukunft, Germany <i>Isabelle Arpin</i> IRSTEA, France <i>Marie Céline Loibl</i> Sparkling Science Austria, Federal Ministry of Science, Research and Economy, Austria <i>Mike Sharples</i> The Open University, UK	16:00
16:45	<b>Citizen Science strategy and impact development in Germany</b> <i>Aletta Bonn, Katrin Vohland &amp; GEWISS team</i> Helmholtz Centre for Environmental Research – UFZ, German Center for integrative Biodiversity Research (iDiv), Museum für Naturkunde Berlin, Germany	16:45
17:00	<b>Citizen Science as an input for better policy formulation &amp; implementation</b> Chairs/Organisers: <i>Jose Miguel Rubio-Iglesias</i> DG Research & Innovation, European Commission, & <i>Susana Nascimento</i> Joint Research Centre – JRC, European Commission <b>New order of panelists</b> <i>Lea Shanley</i> co-Executive Director, South Big Data Innovation Hub at Renaissance Computing Institute (RENCI), University of North Carolina-Chapel Hill, USA <i>Roger Owen</i> Head of Ecology, Scottish Environment Protection Agency, UK <i>Christian Herbst</i> Deputy head of Strategic Foresight and Science Communication, Federal Ministry of Education and Research, Germany <del><i>John Magan</i> Deputy Head Digital Science, DG CONNECT, European Commission</del> <i>Sven Schade</i> Joint Research Centre – JRC, European Commission <i>Elena Montani</i> Policy Officer, Knowledge, Risks and Urban Environment Unit, DG Environment, European Commission	17:00
18:00	Closing day 1	18:00
18:15	Transfer to Museum für Naturkunde (by public transport; more information on page 11)	18:15
19:15	<b>Reception at the Museum für Naturkunde</b> – Greetings by <i>Johannes Vogel</i> , ECSA chair, Director of the Museum für Naturkunde Berlin.   More information on page 11.	19:15

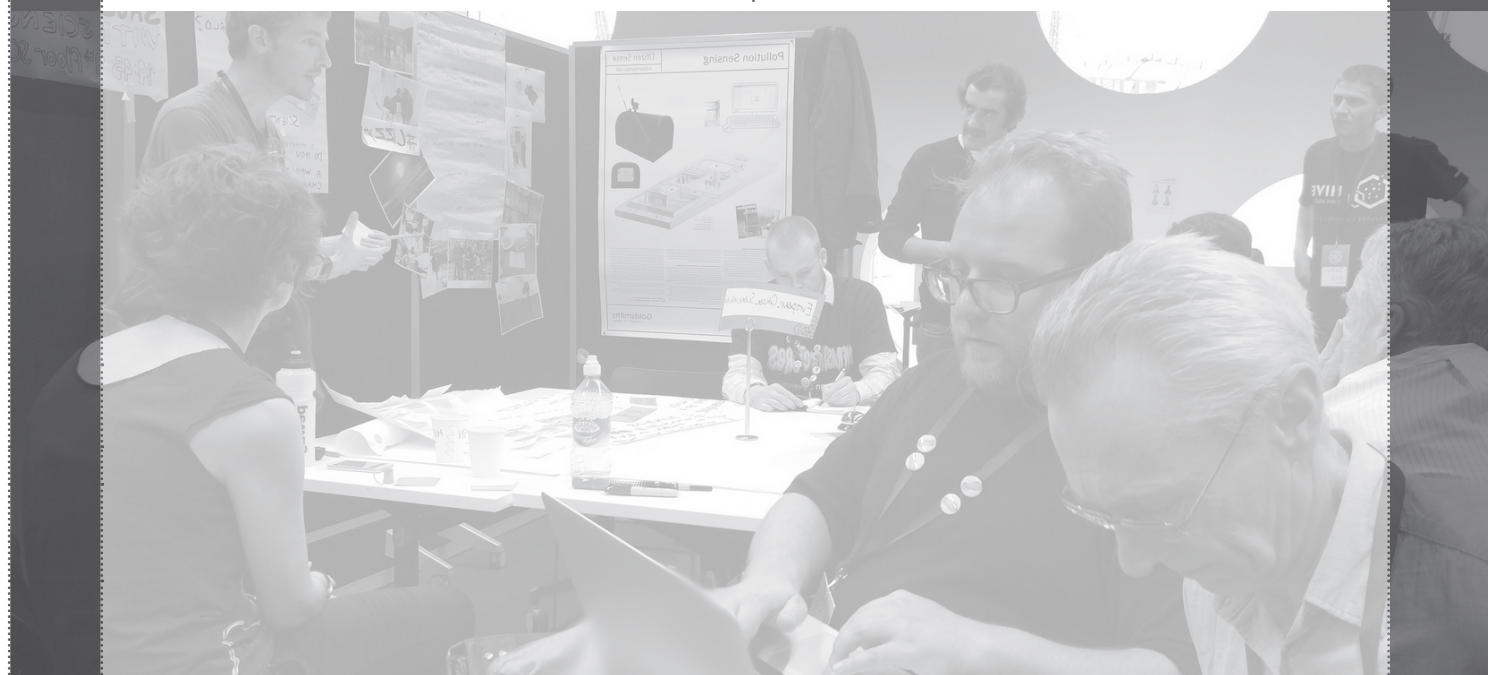
Time	Lecture Hall Kesselhaus	Lecture Hall Maschinenhaus	Time
08:00	Check-in / conference secretariat opens		08:00
<b>CITIZEN SCIENCE – OPPORTUNITIES &amp; CHALLENGES FOR SCIENTIFIC INNOVATION</b>			
09:00	<b>Introduction and review of day 1</b> <i>Marisa Ponti</i> University of Gothenburg, Sweden		09:00
	Keynotes facilitated by: <i>Susanne Hecker</i> UFZ   iDiv, Germany		
09:10	<b>Citizen science – innovation &amp; inspiration for science</b> <i>Rick Bonney</i> Cornell Lab of Ornithology, USA		09:10
09:40	<b>10 Principles of Citizen Science</b> <i>Lucy Robinson</i> The Natural History Museum London, UK		09:40
10:10	<b>Participatory Citizen Science</b> <i>Muki Haklay</i> University College, London, UK		10:10
10:30	Coffee & Tea		10:30
11:00	<b>02 Tools, Technologies and Applications in Citizen Science</b> Chairs: <i>Jose Miguel Rubio Iglesias</i> European Commission; <i>Jaume Piera</i> CSIC-ICM; <i>Suvodeep Mazumdar</i> University of Sheffield, UK; <i>Max Craglia</i> European Commission – Joint Research Centre; <i>Arne J. Berre</i> SINTEF, Norway	<b>04 Embedding Citizen Science Into Schools</b> Chair: <i>John Harlin</i> Alpine Inst., Leysin American School, Leysin, CH	11:00
	CITI-SENSE Observatory Toolbox – User Perspective <i>Hai-Ying Liu</i> NILU, Norway; <i>Arne Berre</i> SINTEF, Norway  Usability engineering for successful participatory sensing in citizen science applications <i>Thomas Bartoschek</i> ; <i>Jan Wirwahn</i> ; <i>Angela Schwering</i> ; <i>Sergey Mukhametov</i> ; <i>Mario Pesch</i> ; <i>Björn Guntermann</i> University of Muenster, Germany  Citizens Observatories for Effective Earth Observations: the WeSenseIt approach <i>Suvodeep Mazumdar</i> ; <i>Neil Ireson</i> ; <i>Fabio Ciravegna</i> University of Sheffield, UK  MammalWeb – Developing generalised technological tools for a user-led citizen science web platform <i>Pen-Yuan Hsing</i> ; <i>Steven Bradley</i> ; <i>Lorraine Coghill</i> Durham University; UK; <i>Vivien Kent</i> Durham Wildlife Trust, UK; <i>Russell Hill</i> Durham University; UK; <i>Mark Whittingham</i> Newcastle University, UK; <i>Philip Stephens</i> Durham University; UK  enviroCar – citizen science tools for sustainable mobility <i>Christoph Stasch</i> ; <i>Albert Remke</i> ; <i>Arne de Wall</i> ; <i>Matthes Rieke</i> 52°North GmbH, Germany  Smartphone tools for coast- and ocean science and citizen's observatories <i>Julia Busch</i> MPI Bremen, Germany; <i>Anna Friedrichs</i> ; <i>Oliver Zielinski</i> University of Oldenburg, Germany; <i>Marcel Wernand</i> NIOZ; Netherlands; <i>Hans van der Woerd</i> IVM / VU Amsterdam, Netherlands; <i>Peter Thijssen</i> MARIS, Netherlands; <i>Julia Schnetzer</i> ; <i>Renzo Kottmann</i> ; <i>Anna Kopf</i> ; <i>Sandra Nowack</i> ; <i>Frank Oliver Glöckner</i> MPI Bremen, Germany  Fireballs in the Sky: A global fireball network in our pockets <i>Jay Ridgewell</i> ; <i>Phil Bland</i> Curtin University, Australia  <b>Open Litter Map – MyGEOSS Winner</b> <i>Seán Lynch</i> Ireland	The use of the Open Air Laboratories (OPAL) surveys as a tool to promote science learning and engagement in schools <i>Gretta McCarron</i> , <i>Karen Kerr</i> Queens University of Belfast, UK  The Swedish Mass Experiments – a Win-Win for Schools and Scientists <i>Fredrik Brounéus</i> , <i>Lotta Tomasson</i> Public & Science (VA), Sweden  Phénoclim: 12 years of citizen science in three Alpine countries <i>Charlotte Mader</i> CREA Mont-Blanc, France  Driven to Discover: A model for using citizen science in the classroom <i>Robert Blair</i> , <i>Karen Oberhauser</i> , <i>Andrea Lorek Strauss</i> , <i>Nathan Meyer</i> University of Minnesota, USA  <b>Successful examples of citizen science in Slovakia – Enviroza, Beagle &amp; Na turu s Naturou</b> <i>Sylvia Baslarova</i> Slovakia  High school students as citizen's scientists in air quality research – lessons learned <i>Sverre Holøs</i> SINTEF, Norway, <i>Britt Ann Høiskar</i> NILU, Norway; <i>Johanna Robinson</i> Jožef Stefan Institute, Slovenia, <i>Alena Bartonova</i> NILU, Norway	
12:30	Lunch • Marketplace • Poster session		12:30



Time	Lecture Hall Palais Atelier I	Lecture Hall Palais Atelier II	Time
 <p><b>CITIZEN SCIENCE – OPPORTUNITIES &amp; CHALLENGES FOR SCIENTIFIC INNOVATION</b></p>			
<b>11:00</b>	<p><b>03 Worldwide citizen science initiatives on light pollution</b> Chairs: <i>Franz Hölker &amp; Sibylle Schroer</i> IGB Berlin, Germany</p>	<p><b>01 Does citizen science really contribute to nature conservation? Sharing evidence and best practice</b> Chairs: <i>Lucy Robinson &amp; John Tweddle</i> The Natural History Museum London, UK</p>	<b>11:00</b>
	<p>Introduction</p> <p>How reliable is data produced by citizen scientists? <i>Christopher Kyba</i> GFZ Potsdam, Germany</p> <p>Cities at Night: ISS pictures to trace the environmental impact the light pollution <i>Alejandro Sanches</i> Universidad Complutense de Madrid, Spain</p> <p>From an interdisciplinary science community to citizen science <i>Sibylle Schroer</i> IGB Berlin, Germany</p> <p>Crime Scene German Inland Waters: On the Track of CO<sub>2</sub> <i>Katja Felsmann</i> IGB Berlin, Germany</p> <p>World Café</p>	<p>Citizen science contributions to species occurrence data in GBIF.org <i>Kyle Copas</i> GBIF, Denmark</p> <p>Conservation of saproxylic insects and Citizen Science – The Life project MIPP is testing a new frontier <i>Alessandro Campanaro</i> CFS-CNBF &amp; CREA-ABP, Italy; <i>Marco Bardiani; Sonke Hardersen; Michela Maura; Emanuela Maurizi; Fabio Mosconi; Lara Redolfi De Zan; Emanuele Toscano; Livia Zapponi; Agnese Zauli; Paolo Audisio; Marco Alberto Bologna; Giuseppe Maria Carpaneto; Pio Federico Roversi; Giuseppino Sabbatini Peverieri; Franco Mason</i></p> <p>Grassroots citizen science: community-led eco restoration in New Zealand <i>Monica Peter</i> University of Waikato, New Zealand; <i>David Hamilton; Chris Eames</i></p> <p>Maximizing conservation outcomes through multi-scale stakeholder engagement in citizen science <i>Jenny Cousins</i> Earthwatch, UK</p> <p>Does citizen engagement matter conservation outcomes? Natura 2000 practices <i>Malgorzata Grodzińska-Jurczak</i> Jagiellonian University, Poland</p>	
<b>12:30</b>	Lunch • Marketplace • Poster session		<b>12:30</b>

Time	Lecture Hall Kesselhaus	Lecture Hall Maschinenhaus	Time
14:00	<p><b>07</b></p> <p><b>Citizen Science Studies – Engaging with the participatory turn in the co-production of science and society</b> Elevator talks &amp; interactive session</p> <p>Chairs: <i>Dana Mahr</i> University of Geneva, CH; <i>Anett Richter</i> Helmholtz Centre for Environmental Research – UFZ, Germany; <i>Claudia Göbel</i> Museum für Naturkunde Berlin   ECSA, Germany</p> <p>Co-chairs: <i>Alan Irwin</i> Copenhagen Business School, Denmark; <i>Katrin Vohland</i> Museum für Naturkunde Berlin   GEWISS, Germany; <i>Sascha Friesike</i> Alexander von Humboldt University Berlin, Germany</p>	<p><b>05</b></p> <p><b>Scientific impacts and innovations of citizen science</b></p> <p>Chairs: <i>Jennifer L. Shirk</i> Cornell Lab of Ornithology, USA; <i>Lucy Robinson</i> The Natural History Museum London, UK</p>	14:00
	<p><b>Citizen Humanities: Configuring Interpretation and Perception for Participation</b> <i>Dick Kasperowski; Christopher Kullenberg</i> University of Gothenburg, Sweden</p> <p><b>What is citizen science today? A case study of current practice in Germany</b> <i>Lisa Pettibone</i> Museum für Naturkunde Berlin, Germany</p> <p><b>Are the rhetorics of citizen science prohibiting detailed accounts of its own practice?</b> <i>Christian Nold</i> UCL, UK</p> <p><b>The (Citizen-)Scientification of Society and the Pleasures of Research. Citizen Science as Science Communication</b> <i>Sascha Dickel</i> TU München, Germany</p> <p><b>Who Cares? Reflections on participatory research inviting written care stories</b> <i>Elisabeth Reitingner; Gert Dressel; Barbara Pichler; Günter Müller; Edith Auer; Nevin Altintop</i> University of Klagenfurt, Austria; <i>Bärbel Traunsteiner</i> Vienna University of Economics and Business, Austria; <i>Monika Gugerell</i> Austria; <i>Katharina Heimerl</i> University of Klagenfurt, Austria</p> <p><b>Participatory turn's legacy and the European 'Responsible Research and Innovation' emerging framework</b> <i>Hadrian Macq</i> University of Liege, Belgium</p> <p><b>Understanding motivations of citizen scientists</b> <i>Gitte Kragh; Rick Stafford; Susanna Curtin; Anita Diaz</i> Bournemouth University, UK</p> <p><b>Creating Communicative Spaces that nurture inquiry, reflection, and dialogue in citizen science</b> <i>Cindy Regalado</i> Univ. College London, UK; <i>Shannon Dosemagen</i> Public Lab. for Open Technology and Science, USA</p> <p><b>Citizen Science Observatory in Spain</b> <i>Fermin Serrano Sanz; Jesus Clemente Gallardo; Francisco Sanz; Eduardo Lostal; Marie Carmen Ibañez</i> Spain</p> <p><b>Who are the citizens in citizen science? Public participation in distributed computing</b> <i>Jérôme Baudry; Élise Tancoigne; Bruno Strasser</i> University of Geneva, Switzerland</p> <p><b>Wisdom of the crowd as value-creation</b> <i>Rael During; Rosalie van Dam; Irini Salverda</i> Wageningen University, Netherlands</p> <p><b>Openness in biohacking: expertise and citizen science</b> <i>Rosen Bogdanov</i> Universitat Oberta de Catalunya, Spain</p> <p><b>Dingdongdong. Interferences with the Natural History of a Disease</b> <i>Katrin Solhdu</i> Vrije Universiteit Brussel, Belgium</p> <p><b>Observing the observer: Citizen Social Science and the Participatory Turn</b> <i>Alexandra Albert</i> University of Manchester, UK</p> <p><b>What can Citizen Science learn from participatory research?</b> <i>Tobias Krüger; Johannes Himmelreich; Anne Dombrowski; Bettina König, Jörg Niewoehner</i> Humboldt-Universität zu Berlin, Germany</p> <p><b>Scrutinising citizenship in citizen science</b> <i>Eugenia Rodrigues</i> University of Edinburgh, UK</p> <p><b>Citizen science: can a community of practice advance scientific reflexivity?</b> <i>Jennifer Shirk</i> Cornell University, UK</p> <p><b>A brief story of the Barcelona Citizen Office: community of practice, the rules of governance, and the connection with citizens and public administration</b> <i>Josep Perelló</i> Universitat de Barcelona, Spain</p> <p><b>Engaging participants in citizen science studies: A qualitative approach to exploring the motivations and experiences of environmental citizen scientists</b> <i>Ria Dunkley</i> Cardiff University</p> <p><b>Co-producing conflict: The making of wolf numbers in France and Finland</b> <i>Taru Peltola</i> IRSTEA, France</p>	<p><b>Citizen Science in Biomedicine: Creating Experts with a Cloud Lab</b> <i>Benjamin Keep</i> Stanford University, USA</p> <p><b>Engaging citizens for social good: Drawing on behavioural models from social influence technologies to improve disease vector reporting by citizen scientists</b> <i>Jaume Piera</i> Institute of Marine Sciences (ICM-CSIC), Spain; <i>Aitana Oltra</i> Center for Advanced Studies of Blanes (CEAB-CSIC), Spain; <i>John Palmer</i> University of Pompeu Fabra (UPF), Spain; <i>Frederic Bartumeus</i> Center for Advanced Studies of Blanes (CEAB-CSIC), Spain</p> <p><b>Crowdsourcing Research Questions in Science</b> <i>Patrick Lehner</i> Ludwig Boltzmann Gesellschaft, Austria</p> <p><b>Evaluating Citizen Science: Too much 'How', not enough 'Why'</b> <i>David Ziegler; Lisa Pettibone; Katrin Vohland</i> Museum für Naturkunde Berlin   GEWISS, Germany</p>	
15:30	<p><b>Plenary Discussion</b></p> <p>Chair: <i>Andrea Sforzi</i> Natural History Museum Maremma, Italy</p>		15:30
16:00	Coffee & Tea		16:00
16:30	<p><b>ECSA General Assembly</b></p> <p>Please read more on page 12.</p>		16:30
19:00	<p><b>Citizen Science Disco:</b> Social event with local Berlin grassroots science communities. Lightning talks, Intro to ThinkCamp, Drinks &amp; Flammkuchen (see pg. 12). Hosts: <i>Lucy Patterson</i> Science Hack Day Berlin, Germany; <i>Margaret Gold</i> The Mobile Collective, UK Music: <i>DJ Audiodiversity</i></p>		19:00

Time	Lecture Hall Palais Atelier I	Lecture Hall Palais Atelier II	Time
14:00	<p><b>06</b></p> <p><b>Citizen engagement and collective intelligence for participatory Digital Social Innovation</b></p> <p>Chair: <i>Jasminko Novak</i> European Institute for Participatory Media, Berlin, Germany</p>	<p><b>08</b></p> <p><b>Citizens Science for environmental monitoring: Engagement and Empowerment in Citizens' Observatories</b></p> <p>Chairs: <i>Alena Bartonova</i> NILU – Norwegian Institute for Air Research, Kjeller, Norway; <i>Irene Eleta</i> ISGlobal, Centre for Research in Environmental Epidemiology (CREAL), Universitat Pompeu Fabra (UPF), CIBER Epidemiología y Salud Pública (CIBERESP), Spain</p>	14:00
	<p><b>Engaging citizens in long-term data-collection activities: the role of Science Cafés</b></p> <p><i>Walter Nunziati</i> magenta srl, Italy; <i>Franco Bagnoli</i> University of Florence, Italy; <i>Fabrizio Dini</i> magenta srl, Italy; <i>Giovanna Pacini</i> University of Florence, Italy</p> <p><b>Youth Woodsmoke Photovoice: Participatory Action Research and Environmental Justice</b></p> <p><i>Robin Evans-Agnew</i>; <i>Alex Gipe</i> University of Washington, USA; <i>Justin Miller-Schulze</i> California State University, USA</p> <p><b>The Grow Observatory: Collective intelligence and participatory citizen science for growing for food and sustainable land use</b></p> <p><i>Drew Hemment</i>; <i>Mel Woods</i> University of Dundee, UK; <i>Rasti Skalsky</i> International Institute for Applied Systems Analysis, Germany; <i>Carlo Buontempo</i> MET Office, UK; <i>Roy Neilson</i> The James Hutton Institute, UK; <i>Moeen Khawaja</i> Umbrellium, UK; <i>Pavlos Georgiadis</i> Culture Polis, Greece; <i>Lucrezia Caon</i> Food and Agriculture Organization of the United Nations, Italy; <i>Angelika Xaver</i> Vienna University of Technology, Austria; <i>Naomi van der Velden</i> Permaculture, UK; <i>Andy Cogley</i>; <i>Nick Taylor</i> University of Dundee, UK; <i>Selena Georgiou</i> Growers Nation, UK; <i>Antonio Mollfulleda</i>; <i>Tom Knippers</i> Starlab; <i>Jerome Bouvard</i> Parrot, France; <i>John Rowan</i> University of Dundee, UK; <i>Tomas Diez</i> Smart Citizen – IAAC, Spain; <i>Endre Dobos</i> University of Miskolc, Hungary; <i>Blair McKenzie</i> The James Hutton Institute, UK; <i>Matt Locke</i> Storythings, UK; <i>Wolfgang Wagner</i> Vienna University of Technology, Austria; <i>Ronald Vargas</i> Food and Agriculture Organization of the United Nations, Italy; <i>Oliver Moore</i> Agricultural and Rural Convention, UK; <i>Tom Rowlands</i> Future Everything CIC, UK; <i>Scott Poynton</i> TFT, UK</p> <p><b>Policy recommendations for collective approaches to digital social innovation for mobility</b></p> <p><i>Mireia Ferri Sanz</i>; <i>Estrella Durá Ferrandis</i>; <i>Maite Ferrando García</i> University of Valencia, Spain; <i>Fini García Ros</i> Elche City Council, Spain; <i>Karsten Gareis</i> empirica, Germany</p>	<p><b>Citizen engagement</b></p> <p><i>Luigi Ceccaroni</i> 100001 Labs, Spain; <i>Jenny Cousins</i> Earthwatch Institute, UK; <i>Bernat Claramunt</i> Centre de Recerca Ecològica i Aplicacions Forestals, Spain; <i>Jaume Piera</i> Consejo Superior de Investigaciones Científicas, Spain; <i>Neil Bailey</i> Earthwatch Institute, UK; <i>Oliver Zielinski</i> University of Oldenburg, Germany; <i>Julia a. Busch</i> Jacobs University Bremen, Germany</p> <p><b>Public air quality information and perception in eight cities: the CITI-SENSE empowerment initiative</b></p> <p><i>Tom Cole-Hunter</i> CREAL, Spain; <i>Arne Berre</i> SINTEF, Norway; <i>Núria Castell</i>; <i>Mirjam Fredriksen</i> NILU, Norway; <i>Johanna Robinson</i> Jožef Stefan Institute (JSI), Slovenia; <i>Leonardo Santiago</i> Ateknea Solutions, Spain; <i>William Lahoz</i>; <i>Hai-Ying Liu</i> NILU, Norway; <i>Tania Martínez</i> Fundacio CREAL, Spain; <i>Philipp Schneider</i> NILU, Norway; <i>Consortium CITI-SENSE</i>; <i>Sofia Aivaloti</i> Sensing &amp; Control Systems, Spain; <i>Sonja Grossberndt</i> NILU, Norway; <i>Hans Keune</i> INBO, Belgium; <i>Fintan Hurley</i> Institute of Occupational Medicine (IOM), UK; <i>Mark Nieuwenhuijsen</i> Fundacio CREAL, Spain; <i>Alena Bartonova</i> NILU, Norway</p> <p><b>Understanding the barriers between citizens and authorities in environmental monitoring</b></p> <p><i>Mazumdar Suvodeep</i>; <i>Fabio Ciravegna</i>; <i>Neil Ireson</i> University of Sheffield, UK</p> <p><b>CITI-SENSE: Observing environmental quality at public places, a step towards empowering citizens in local management</b></p> <p><i>Itziar Aspuru</i> Tecnalia Research &amp; Innovation, Spain</p> <p><b>The Use of Citizen Science and Participatory Mapping in Gathering Local Environmental Knowledge of Air Quality</b></p> <p><i>Louise Francis</i> University College London, UK</p> <p><b>The Impact of Citizen Science projects on Participants' Perceptions and Behaviour towards Air Pollution</b></p> <p><i>Diana Silva</i> King's College London, UK</p>	



Time	Lecture Hall Kesselhaus	Lecture Hall Maschinenhaus	Time
08:00	Check-in / conference secretariat opens		08:00
<b>CITIZEN SCIENCE FEST – CELEBRATING SUCCESS</b>			
09:00	<b>Introduction and review of day 2</b> <i>Muki Haklay</i> University College London, UK		09:00
09:10	<b>Co-designing research projects: Citizen science meets stakeholder involvement</b> <i>Heribert Hofer</i> IZW Berlin, Germany		09:10
09:40	<b>Citizen Science and the role of museums</b> Panel discussion facilitated by: <i>Zen Makuch &amp; Poppy Lakeman-Fraser</i> Imperial College London, UK <i>Johannes Vogel</i> Museum für Naturkunde Berlin, Germany <i>Gregoire Lois</i> Natural History Museum Paris, Germany <i>Wolfgang Wägele</i> Zoological Research Museum Alexander Koenig Bonn, Germany <i>Andrea Sforzi</i> Natural History Museum Maremma, Italy <i>John Tweddle</i> The Natural History Museum London, UK		09:40
10:30	Coffee & Tea		10:30
11:00	<b>ThinkCamp</b> Facilitators: <b>TC</b> <i>Muki Haklay</i> UCL, UK; <i>Lucy Patterson</i> ; Science Hack Day Berlin, Germany; <i>Margaret Gold</i> The Mobile Collective, UK	<b>10</b> <b>Exploring the opportunities and challenges: Citizen Science and Responsible Research and Innovation</b> Speakers   Facilitators: <i>Melanie Smallman</i> UCL, London, UK <i>Daniel García Jiménez</i> “la Caixa” Foundation, RRI Tools Project	11:00
<p>The ThinkCamp is an “unconference” style event-within-the-event, to which the local Berlin grassroots science &amp; maker communities are invited to collaborate together with Conference attendees on a number of Citizen Science Challenges (see page 20). The style is similar to a World Cafe, with an emphasis on providing an open and creative environment for working together on new ideas, Citizen Science projects, and technology platforms.</p> <p>You are invited to join us in the Kesselhaus throughout the day, to move freely between the different challenge discussion tables, as well as between the ThinkCamp and the Panel Sessions in other rooms (a.k.a. ‘The law of 2 feet’).</p> <p>It’s a great opportunity to work together with people with different perspectives, skills, and expertise - not to mention getting fresh inspiration, meeting potential new collaborators, and even getting involved in exciting new projects!</p> <p>You may be drawn to a Challenge based on your experience, your skills, your personal interests, or simply because you have a fresh take on the problem. The goal is to harness some of that fantastic collective brain-power for creative problem-solving and the generation of new ideas. The Challenge leaders will present a summary of the discussions that took place at the end of the afternoon, before the Closing Plenary.</p>		<p>Responsible Research and Innovation (RRI) is an important new concept in science and society and one of the cross-cutting themes of the European Commission’s Horizon 2020 programme. Drawing together long-standing perspectives including public participation, ethics and gender in science, RRI has the potential to offer new opportunities but also challenges for Citizen Science.</p> <p>In this session, we discuss the concept of RRI further and, through group work, consider the opportunities and challenges it presents to Citizen Science. We will also help participants to work through the RRI-Tools toolkit, to identify resources that could be useful for citizen science, to add any resources that appear to be missing and to suggest new developments that can support activities in the future.</p>	
12:30	Lunch • Marketplace • Poster session Poster authors: Please remove your posters at the end of this break or latest at the end of the conference day!		12:30

Time	Lecture Hall Palais Atelier I	Lecture Hall Palais Atelier II	Time		
 <p><b>CITIZEN SCIENCE FEST – CELEBRATING SUCCESS</b></p>					
11:00	<p><b>09</b></p> <p><b>Data, metadata, quality and visualisation of citizen science data</b> Chair: <i>Jamie Williams</i> Csci Environment Systems, UK</p>	<p><b>11</b></p> <p><b>Communicating Citizen Science through storytelling</b> Chairs: <i>Monique Luckas</i> Haus der Zukunft, Berlin, Germany <i>Susanne Hecker</i> Helmholtz Centre for Environmental Research – UFZ   iDiv, Germany</p>	11:00		
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>Data quality, metadata and validation in EyeOnWater</b> <i>Peter Thijssse</i> MARIS, Netherlands; <i>Marcel Wernand</i> NIOZ, Netherlands; <i>Hans van der Woerd</i> IVM / VU Amsterdam, Netherlands; <i>Julia A. Busch</i> Jacobs University Bremen, Germany</p> <p><b>Wide access to Spatial Citizen Science Data</b> <i>Paul van Genuchten</i> GeoCat BV, Netherlands; <i>Lieke Verhelst</i> Linked Data Factory, Netherlands</p> <p><b>Title iSpot data quality, metadata and visualization</b> <i>Michael Dodd</i> The Open University, UK</p> <p><b>The COBWEB Quality Assurance System in Practice: Example for an Invasive Species Study</b> <i>Didier Leibovici</i> University of Nottingham, UK; <i>Jamie William</i> Environment Systems Ltd, UK; <i>Julian Rosser</i> University of Nottingham, UK; <i>Crona Hodges</i> Aberystwyth University, UK; <i>Douglas Scott</i>, <i>Colin Chapman</i> Welsh Government, UK; <i>Chris Higgins</i> University of Edinburgh, UK; <i>Mike Jackson</i> University of Nottingham, UK</p> <p><b>Geofence-driven Crowdsourcing and Citizen Science</b> <i>Suvodeep Mazumdar</i>, <i>Neil Ireson</i>, <i>Fabio Ciravegna</i> University of Sheffield, UK</p> <p><b>CITI-SENSE Observatory Toolbox – Developer Perspective</b> <i>Miriam Fredriksen</i> NILU, Norway, <i>Arne Berre</i> SINTEF, Norway</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>“To hell with facts! We need stories!” (<i>Ken Kesey</i>) – Short introduction</b> <b>Special Input: The power of narrative</b> <i>Bernard Schiele</i> Faculty of Communication, University of Quebec at Montreal, Canada</p> <p><b>NatureToday.com; how biologists can dominate the news world-wide with their stories</b> <i>Arnold van Vliet</i>, <i>Wichertje Bron</i> Wageningen University, Netherlands</p> <p><b>Cat tales: the social side of an international citizen science project exploring the movement and management of cats</b> <i>Heidy Kikillus</i> New Zealand; <i>Hayley Tindle</i>, <i>Sandra Taylor</i>, <i>Philip Roetman</i> University of South Australia, Australia</p> <p><b>City foxes: An unusual cooperation between a research institute and a public broadcasting corporation</b> <i>Sophia Kimmig</i> Leibniz Institute for Zoo and Wildlife Research, Germany; <i>Ilona Marenbach</i> Rundfunk Berlin-Brandenburg, Germany; <i>Heribert Hofer</i>, <i>Miriam Brandt</i> Leibniz Institute for Zoo and Wildlife Research, Germany</p> <p><b>The Magic Mountain: Citizen Science and Intrigue at 1,400 meters</b> <i>Chris Leonhard</i>, <i>John Harlin</i> Leysin American School, Switzerland</p> <p><b>Landscape Change</b> <i>Wolfgang Wende</i> Leibniz Institute of Ecological Urban and Regional Development, Germany</p> <p><b>Catching stories</b> <i>Andrea Sieber</i> Alpen-Adria-Universität Klagenfurt, Austria</p> <p><b>Discussion</b></p> </td> </tr> </table>				<p><b>Data quality, metadata and validation in EyeOnWater</b> <i>Peter Thijssse</i> MARIS, Netherlands; <i>Marcel Wernand</i> NIOZ, Netherlands; <i>Hans van der Woerd</i> IVM / VU Amsterdam, Netherlands; <i>Julia A. 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12:30	<p>Lunch • Marketplace • Poster session</p> <p>Poster authors: Please remove your posters at the end of this break or latest at the end of the conference day!</p>		12:30		

Time	Lecture Hall Kesselhaus	Lecture Hall Maschinenhaus	Time
13:30	<p><b>ThinkCamp</b> Facilitators: <i>Muki Haklay</i> UCL, UK; <i>Lucy Patterson</i> Germany; Science Hack Day Berlin, Germany; <i>Margaret Gold</i> The Mobile Collective, UK</p>	<p><b>12</b> <b>Gaming for good: Exploring the potential and pitfalls of citizen science games</b> Chairs: <i>Marisa Ponti</i> University of Gothenburg, Sweden; <i>Anna L. Cox</i> University College London, UK; <i>Anne E. Bowser</i> Woodrow Wilson International Center for Scholars, US International Center for Scholars. Washington, United States</p>	13:30
	<p>During the ThinkCamp, conference attendees and local Berlin community members are collaborating together on a range of Citizen Science Challenges to launch new projects, address challenges, apply technologies, and take advantage of new opportunities. These include:</p> <ol style="list-style-type: none"> <li><b>The ECSA Inclusiveness Challenge</b> – <i>How can we ensure that ECSA becomes an inclusive organisation?</i></li> <li><b>The WeCureALZ ‘Engaging Diversity’ Challenge</b> – <i>Help us design unique &amp; effective strategies to engage and retain diverse communities.</i></li> <li><b>The CitSci Communities of Europe Challenge</b> – <i>Mapping the citizen science communities of Europe: how and why should we do this?</i></li> <li><b>The Overleaf Collaborative Writing Challenge</b> – <i>How can Overleaf support collaborative writing between academics and citizen scientists?</i></li> <li><b>The Museum Data Visualisation Challenge</b> – <i>How can the visualisation of observation data gathered in the field be made more engaging and dynamic for participants?</i></li> <li><b>The HealthSites.io ‘CitSci for Health’ Challenge</b> – <i>What Citizen Science projects become possible with the health facilities geo data being mapped on the HealthSites.io platform?</i></li> <li><b>The Motion-sensing Camera Trap Challenge</b> (to be confirmed)</li> <li><b>YOUR Citizen Science Challenge</b> – <i>Would YOU like to pose a Challenge at the ThinkCamp? We’ll have paper and pens ready for you to pitch your Challenge on the day, and kick-off a new discussion!</i></li> </ol>	<p>Fun, Science, Reputation or Gift of self? <b>The motivations behind a top Foldit player</b> <i>Bruno Kestemont</i> Citizen scientist – Foldit player, Belgium</p> <p><b>The participant’s experience in human behaviour public experiments</b> <i>Julian Vicens, Jordi Duch</i> Universitat Rovira i Virgili, Spain; <i>Josep Perelló</i> Universitat de Barcelona, Spain</p> <p><b>Gamification for public engagement with invasive tree pests and diseases</b> <i>Savitri Maharaj</i> University of Stirling, UK; <i>Peter Greene</i> UK; <i>Glyn Jones</i> FERA, UK; <i>Craig Docherty</i> University of Stirling, UK</p> <p><b>Biocaching</b> <i>Bjørn Hjelle</i> Biocaching, Norway</p> <p><b>Examining the effects of gamification and communication in Citizen Science</b> <i>Ramine Tinati, Markus Luczak-Roesch, Elena Simperl</i> University of Southampton, UK</p> <p><b>Games and Gamification in Citizen Science: Lessons from Citizen Cyberlab</b> <i>Charlene Jennett, Anna Cox</i> University College London, UK; <i>Laure Kloetzer</i> University of Neuchatel, Switzerland; <i>Daniel Schneider</i> University of Geneva, Switzerland; <i>Enhui Li, Emily Collins</i> University College London, UK; <i>Mattia Fritz</i> University of Neuchatel, Switzerland; <i>Raphael Goujet</i> University Paris Descartes, France; <i>Eleanor Rusack</i> UNITAR/UNOSAT, Switzerland; <i>Ioannis Charalampidis</i> CERN, Switzerland</p> <p><b>Citizen science motivated by collaborative gamified services</b> <i>Gunnar Fredikson, Arne Berre</i> SINTEF, Norway</p> <p><b>Play DECIDE: Gaming Social Sciences</b> <i>Milena Wuketich, Alexander Lang, Erich Griessler</i> Institute for Advanced Studies Vienna, Austria; <i>Brigitte Gschmeidler, Jochen Stadler</i> Open Science, Austria; <i>Matthias Kopp</i> Austria</p> <p><b>Engaging Citizens in Environmental Monitoring via Gaming</b> <i>Juan-Carlos Lasos-Bayas, Ian McCallum, Inian Moorthy, Linda See, Steffen Fritz</i> IASA, Austria</p> <p><b>Digital game design for citizen science about sustainability: exploring a ‘learning by modding’ approach</b> <i>Chronis Kynigos &amp; Maria Daskolia</i> University of Athens</p> <p>Discussion</p>	
15:00	<p><b>Plenary Discussion</b> <b>Farewell</b> by <i>Johannes Vogel</i> ECSA chair</p>		15:00
16:00	<p><b>Berlin Citizen Science Fest</b> Organisers: <i>Thorsten Witt, Wiebke Volkmann &amp; Irene Schütz</i> Wissenschaft im Dialog, Germany Please see page 13.</p> <p><b>Promenade Tempelhofer Feld – Public Space in the City</b> <i>Start: 17:00 h at main entrance Tempelhofer Damm   Duration: 1.5 – 2 h   End: 7:30–8:00 pm at Pioneerproject Nature Mini Art Golf (Columbiadamm). Public Transport: U-/S-Bahnhof Tempelhof (Underground/U-Bahn 6, Surburban Train/S-Bahn 41, S2, S5, S6, Bus 140, 184)</i></p> <p><b>Eat your city: Mundraub.org</b> <i>Start: 16:30 h pm at conference venue Kulturbrauerei; walking tour</i> Please see page 13</p>		16:00

# Saturday • May 21 *cont.*

Time	Lecture Hall Palais Atelier I	Lecture Hall Palais Atelier II	Time
13:30	<p><b>13</b> <b>Citizen science with small sensor networks complementing traditional insitu observations - gaps, advances and limitations. From activism to collaboration in environmental measurements</b></p> <p>Chairs: <i>Jeroen Devilee</i> Dutch National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands; <i>Ian McCallum</i> International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria</p>	<p><b>14</b> <b>Science Capital, Science Identity and Learning Through Citizen Science</b></p> <p>Chairs: <i>Richard Edwards</i> School of Education, University of Stirling, UK; <i>Katherine Mathieson</i> British Science Association, UK; <i>Rick Bonney</i>; <i>Tina Phillips</i> Cornell Lab of Ornithology, USA</p>	13:30
	<p>Citizen observatories to complement space-borne remote sensing: case study Red River Vietnam <i>Martine Rutten</i> Delft University of Technology, Netherlands</p> <p>Sensors and citizens: how far can we get? <i>Ernie Weijers</i> Energy Research Centre of the Netherlands</p> <p>The Dutch Environmental Protection Agency finding its way into Citizen Science <i>Hester Volten, Joost Wesseling, Edith Putten, Annemarie Alphen, Eric Tielemans</i> RIVM National Institute for Public Health and the Environment, Netherlands</p> <p>Can low-cost sensors contribute to air quality assessment and citizen science? <i>Nuria Castell</i> NILU, Norway; <i>Uri Lerner, Barak Fishbain</i> Technion Enviromatics Laboratory, Israel; <i>Franck René Dauge, Philipp Schneider, Matthias Vogt, Alena Bartonova</i> NILU, Norway</p> <p>Augmenting Observations from Satellites with Crowdsourcing <i>Mazumdar Suvodeep, Stuart Wrigley, Fabio Ciravegna</i> University of Sheffield, UK</p> <p>Humans as sensors – complementing traditional land use measurements with citizen science <i>Inian Moorthy, Steffen Fritz &amp; Linda See</i> IIASA</p>	<p>Improving participation in citizen science using the Science Capital concept – a workshop exploration <i>Neil Bailey</i> Earthwatch, UK</p> <p>Exploring the relationship between educational background and learning outcomes in citizen science <i>Richard Edwards, Diarmuid McDonnell, Ian Simpson</i> University of Stirling, UK</p> <p>Considering external resource use in forum discussions as an indicator of citizen scientist learning <i>Thomas Hillman; Åsa Mäkitalo</i> University of Gothenburg, Sweden</p> <p>Designed for Learning: impacts and future direction of the Vital Signs program <i>Sarah Kirn</i> Gulf of Maine Research Institute, USA</p> <p>Evaluating learning in online Citizen Science: reflections on a mixed methods approach <i>Laure Kloetzer</i> University of Neuchâtel, Switzerland; <i>Charlene Jennett</i> University College London, UK; <i>Daniel Schneider</i> University of Geneva, Switzerland</p> <p>Examining how participation and engagement in citizen science influence learning: a mixed methods, collaborative research project <i>Tina Phillips</i> Cornell Lab of Ornithology, USA</p>	
			

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01-02	Citizen science's contribution to optimizing the potential of greenway nature trails	Petruzzi Emi	Cristiano Spilinga <sup>1</sup> ; Elisa Chiodini <sup>1</sup> ; Emi Petruzzi <sup>1</sup> ; Federica Andreini <sup>2</sup> ; Bernardino Ragni <sup>3</sup>	<sup>1</sup> Studio Naturalistico Hyla s.n.c.; <sup>2</sup> Comune di Spoleto; <sup>3</sup> Università degli Studi di Perugia
01-03	Modelling species distributions with citizen science data – benefits and limitations	Tiago Patricia	Patricia Tiago <sup>1</sup> ; César Capinha <sup>2</sup>	<sup>1</sup> BioDiversity <sup>4</sup> All; <sup>2</sup> CIBIO-INBIO
01-04	"On the wings of knowledge": a Citizen Science Project as a case study of public participation in entomological research	Vovlas Alessio	Alessio Vovlas; Daniela Clemente; Enrico Altini	A.P.S. Polyxena
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02-02	A smartphone application for a citizen science project on seafood sustainable consumption	Bartoccioni Falvia	Flavia Bartoccioni <sup>1</sup> ; Luciano Bononi <sup>2</sup> ; Stefano Cataudella <sup>1</sup> ; Lorenzo Vinci <sup>2</sup> ; Caterina Lorenzi <sup>1</sup>	<sup>1</sup> Univ. of Rome Tor Vergata; <sup>2</sup> Univ. of Bologna
02-03	OpenAIRE 2020: How Infrastructures open science to the world	Deppe Arvid	Arvid Deppe	SUB Göttingen
02-04	Distribution of the invasive slug <i>Arion vulgaris</i> in Austrian gardens: first results of a citizen science project (BOKUArion)	Doerler Daniel	Daniel Doerler; Matthias Kropf; Johann G. Zaller	Univ. of Natural Resources and Life Sciences (BOKU) Vienna
02-05	Data Quality in Citizen Science Projects considering Roadkills	Heigl Florian	Florian Heigl; Johann G. Zaller	Univ. of Natural Resources and Life Sciences (BOKU) Vienna
02-06	Automatic bat monitoring: when humans become more and more necessary	Lois Gregoire	Gregoire Lois	Muséum national d'Histoire naturelle
02-07	Environmental quality for outdoor sports – eQUOS app	Macaluso Filippo	Giosuè Lo Bosco; Maurizio La Rocca; Filippo Macaluso	Euro-Mediterranean Inst. of Science and Technology (IEMEST)
02-08	CSMON-LIFE: data from the people, data for the people	Martellos Stefano	Stefano Martellos <sup>1</sup> ; Fabio Attorre <sup>2</sup> ; Donatella Cesaroni <sup>3</sup> ; Stefano Di Marco <sup>4</sup> ; Damiano Petruzzella <sup>5</sup> ; Oliviero Spinelli <sup>6</sup> ; Giuliano Tallone <sup>7</sup> ; Alessio Mereu <sup>8</sup>	<sup>1</sup> Univ. of Trieste; <sup>2</sup> Sapienza Univ. of Rome; <sup>3</sup> Univ. of Rome "Tor Vergata"; <sup>4</sup> CTS; <sup>5</sup> CHIEAM; <sup>6</sup> Comunità Ambiente S.r.l.; <sup>7</sup> Regional Parks Agency of Lazio; <sup>8</sup> Divulgando S.r.l.
02-09	Landsense: A Citizen Observatory and Innovation Marketplace for Land Use and Land Cover	McCallum Ian	Inian Moorthy; Juan-Carlos Lasos-Bayas; Ian McCallum; Steffen Fritz; Linda See	IIASA
02-10	Atmos iOS: A Hybrid Weather-Crowdsourcing Application	Niforatos Evangelos	Evangelos Niforatos	Università della Svizzera italiana (USI) - Univ. of Lugano
02-11	Historical data, a web-based platform, and volunteers: Citizen science to reconstruct past species distribution in Zurich region, Switzerland	Nyffeler Reto	Reto Nyffeler <sup>1</sup> ; Corina Del Fabbro; Thomas Wohlgemuth	<sup>1</sup> Univ. of Zurich
02-12	Citizen Science Technology: Challenges and Opportunities	Parker Alison	Alison Parker <sup>1</sup> ; Margaret MacDonell; Young-Soo Chang; Kevin Kuhn; Barbara Martinez	<sup>1</sup> ORISE fellow at US Environmental Protection Agency
02-13	Saving the bees through ancient knowledge	Ramanauskaitė Egle Marija	Egle Marija Ramanauskaitė	Svencioniu raj., Lithuania
02-14	Etopia-Unizar, Citizen Science Laboratories	Sanz Francisco	Francisco Sanz; Fermin Serrano; Jesús Clemente; Eduardo Lostal; Mari Carmen Ibañez	Zaragoza, Spain
02-15	Open Source Based Sensor Platform for Mobile Environmental Monitoring and Data Acquisition	Schima Robert	Robert Schima <sup>1</sup> ; Tobias Goblirsch <sup>2</sup> ; Christoph Salbach <sup>1</sup> ; Bogdan Francyk <sup>2</sup> ; Jan Bumberger <sup>1</sup> ; Peter Dietrich <sup>1</sup>	<sup>1</sup> Helmholtz Centre for Environmental Research – UFZ; <sup>2</sup> Univ. of Leipzig
02-16	One Picture Post is Worth A Thousand Pictures: OR How Can Outdoor Digital Photographers Become Citizen Scientists Locally and Join in an Environmental Monitoring Network	Schloss Annette	Annette Schloss <sup>1</sup> ; Jeffrey Beaudry <sup>2</sup> ; John Pickle <sup>3</sup>	<sup>1</sup> Univ. of New Hampshire; <sup>2</sup> Univ. of Southern Maine; <sup>3</sup> Concord Academy
02-17	<i>brotsocientize.eu</i> – a citizen science tool for mapping cultural concepts	Seltmann Melanie	Melanie Seltmann <sup>1</sup> ; Fermin Serrano Sanz <sup>2</sup> ; Amelie Dorn <sup>1</sup>	<sup>1</sup> Österreichische Akademie der Wissenschaften; <sup>2</sup> Universidad de Zaragoza
02-18	Mobile Apps in Environmental Education and Citizen Science – Good Investment or a Waste of Time?	Sturm Ulrike	Ulrike Sturm; Martin Tscholl	Museum für Naturkunde Leibniz Inst. for Research on Evolution and Biodiversity Science
02-19	IBES & Wildbook: Computer-assisted identification of crowd-sourced wildlife imagery	Van Oast Jon	Jon Van Oast <sup>1</sup> ; Jason Holmberg <sup>1</sup> ; Tanya Berger-Wolf <sup>2</sup> ; Charles Stewart <sup>3</sup> ; Daniel Rubenstein <sup>4</sup>	<sup>1</sup> Wild Me; <sup>2</sup> Univ. of Illinois at Chicago; <sup>3</sup> Rensselaer Polytechnic Inst.; <sup>4</sup> Princeton Univ.





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02-21	DisCoPar: A Reconfigurable Citizen Observatory Platform	Zaman Jesse	Jesse Zaman	Vrije Universiteit Brussel
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04-02	senseBox:edu – DIY citizen science for the engagement in environmental activities	Bartoschek Thomas	Thomas Bartoschek; Angela Schwering; Sergey Mukhametov; Jan Wirwahn; Mario Pesch; Björn Guntermann	Univ. of Muenster
04-03	The School of Ants Project: a bridge between scientists and the science education in the Italian schools	Castracani Cristina	Cristina Castracani; Fiorenza A. Spotti; Donato A. Grasso; Alessandra Mori	Univ. of Parma
04-04	Embedding citizen science about urban sustainability in a tertiary education curriculum	Daskolia Maria	Junior professor Maria Daskolia <sup>1</sup> ; Chronis Kynigos <sup>2</sup>	<sup>1</sup> CTI & Press &#0 <sup>39</sup> ; Diophantus&#0 <sup>39</sup> ; - Environmental Education Lab (EEL), Univ. of Athens; <sup>2</sup> CTI & Press &#0 <sup>39</sup> ; Diophantus&#0 <sup>39</sup> ; - Educational Technology Lab (ETL), Univ. of Athens
04-05	Who are the citizen scientists involved in French biodiversity monitoring programs?	Dozières Anne	Anne Dozières	Muséum national d'Histoire naturelle
04-06	Kids in Participation	Elster Doris	Doris Elster; Eva-Lotta Möckel	Univ. Bremen
04-07	Citizen Social Science in schools? Involving students in finding solutions for energy efficient ICT practices	Heidenreich Sara	Sara Heidenreich	NTNU
04-08	A Citizen Science-project on marine litter – The impact of engaging K-12students in scientific research	Kruse Katrin	Katrin Kruse <sup>1</sup> ; Katrin Knickmeier <sup>1</sup> ; Martin Thiel <sup>2</sup>	<sup>1</sup> Kieler Forschungswerkstatt; <sup>2</sup> Universidad catolica del Norte, Coquimbo
04-09	A Case Study of Citizen Science in the International Baccalaureate (IB) Diploma Program	Leonhard Chris	Chris Leonhard; Dan Patton; John Harlin	Leysin American School
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04-19	Social Science – Citizen Science?	Wuketich Milena	Milena Wuketich <sup>1</sup> ; Alexander Lang <sup>1</sup> ; Erich Grießler <sup>1</sup> ; Brigitte Gschmeidler <sup>2</sup> ; Jochen Stadler; Matthias Kopp	<sup>1</sup> Inst. for Advanced Studies Vienna; <sup>2</sup> Open Science
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05-03	Tagging the Natural World: A pilot citizen-science project at MUHNAC, Univ. of Lisbon	Luís Cristina	António J. Monteiro <sup>1</sup> ; Cristina Luís <sup>2</sup> ; Marta C. Lourenço <sup>3</sup>	<sup>1</sup> MUHNAC, Univ. de Lisboa, <sup>2</sup> MUHNAC, Univ. de Lisboa, CIUHCT, Fac. de Ciências, Univ. de Lisboa, Inst. Univ. de Lisboa (ISCTE-IUL), CIES-UL, <sup>3</sup> MUHNAC, Univ. de Lisboa, CIUHCT, Fac. de Ciências, Univ. de Lisboa, Portugal
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06-02	Challenges of Online Engagement, Social Innovation and Societal Impact	Balazs Balint	Balint Balazs	ESSRG
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07-08	Expedition Münsterland – A bridge from science to society	Harnack Anne	Wilhelm Bauhus; Catharina Kähler; Katarina Kühn; Anne Harnack	Westfälische Wilhelms-Universität Münster
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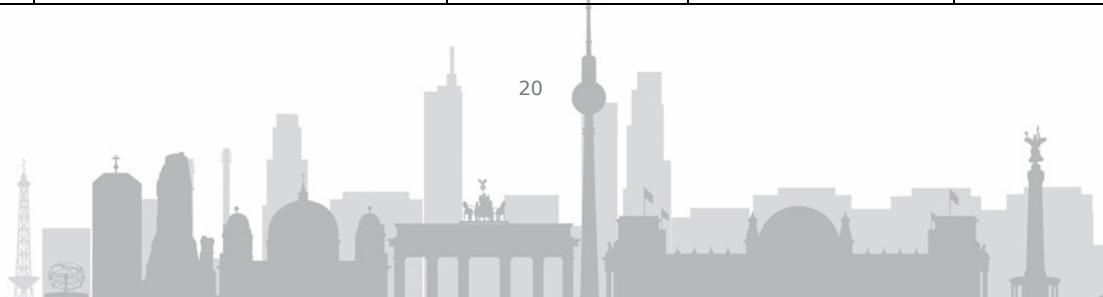


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07-15	<b>Local stakeholder contributions to the Red-listing of Europe's medicinal and vascular plants</b>	Tomasini Sabrina	Sabrina Tomasini	Copenhagen Univ.
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07-18	<b>Analysis of existing experience, results and preliminary guidelines on participatory mobility campaign patterns.</b>	Wuytens Nils	Nils Wuytens <sup>1</sup> ; Cathy Macharis <sup>1</sup> ; Imre Keseru <sup>1</sup> ; Sidharta Gautama <sup>2</sup>	<sup>1</sup> Vrije Universiteit Brussel; <sup>2</sup> Univ. of Ghent
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08-03	<b>Citizen Science and the challenge of the neglected insects: a focus on the aquatic Heteroptera</b>	Cianferoni Fabio	Fabio Cianferoni <sup>1</sup> ; Stefano De Felici <sup>1</sup> ; Mattia Menchetti <sup>2</sup>	<sup>1</sup> CNR - National Research Council of Italy; <sup>2</sup> Univ. of Florence
08-04	<b>Scientists by chance: what tell us data from unaware citizen scientists?</b>	De Felici Stefano	Stefano De Felici <sup>1</sup> ; Flavia Sorge <sup>2</sup> ; Valerio Sbordoni <sup>2</sup> ; Donatella Cesaroni <sup>2</sup>	<sup>1</sup> CNR - National Research Council of Italy; <sup>2</sup> Univ. of Rome "Tor Vergata", Italy
08-05	<b>Citizens and their involvement on environmental issues: The experience of the Val d'agri environmental observatory. a starting point towards new challenges</b>	Faruolo Mariapia	Serena Trippetta; Simona Loperte; Mariapia Faruolo	National Council of Research (CNR)/Inst. of Methodologies for Environmental Analysis
08-06	<b>Citizen Science for CIGESMED, or how to engage divers in marine ecological monitoring: first steps of a new project</b>	Gatti Giulia	Giulia Gatti <sup>1</sup> ; Charalampos Dimitriadis <sup>2</sup> ; Vasilis Gerovasileiou <sup>3</sup> ; Thanos Dailianis <sup>3</sup> ; Emmanouella Panteri <sup>3</sup> ; Yiannis Issaris <sup>3</sup> ; Maria Sini <sup>4</sup> ; Maria Salomidis <sup>3</sup> ; Nikitas Michalakis <sup>3</sup> ; Alper Doğan <sup>5</sup> ; Laure Thierry de Ville d'Avray <sup>6</sup> ; Romain David <sup>6</sup> ; Melih Ertan Çınar <sup>5</sup> ; Drosos Koutsoubas <sup>2</sup> ; Christos Arvanitidis <sup>3</sup> ; Jean-Pierre Féral <sup>6</sup>	<sup>1</sup> CNRS; <sup>2</sup> National Marine Park of Zakynthos; <sup>3</sup> Hellenic Centre for Marine Research; <sup>4</sup> Univ. of the Aegean; <sup>5</sup> Ege Univ.; <sup>6</sup> Aix-Marseille Univ./CNRS
08-07	<b>The Next Generation of Citizen Observatories</b>	Hemmet Drew	Drew Hemmet <sup>1</sup> ; Angelos Amditis <sup>2</sup> ; Steffen Fritz <sup>3</sup> ; Uta Wehn <sup>4</sup> <b>Inian Moorthy<sup>5</sup></b>	<sup>1</sup> Univ. of Dundee; <sup>2</sup> Inst. of Communication & Computer Systems (ICCS); <sup>3</sup> International Inst. for Applied Systems Analysis (IIASA); <sup>4</sup> UNESCO-IHE Inst. for Water Education
08-08	<b>Real-time air pollution monitoring in elementary school perform by and present to children</b>	Jovašević-Stojanović Milena	Milena Jovašević-Stojanović <sup>1</sup> ; Dušan Topalović <sup>1</sup> ; Britt Ann Kåstad Høiskar <sup>2</sup> ; Sverre Holøs <sup>3</sup> ; Ivan Lazović <sup>1</sup> ; Miloš Davidović; Alena Bartonova <sup>2</sup>	<sup>1</sup> Vinča Inst. of Nuclear Sciences, Univ. of Belgrade; <sup>2</sup> Norwegian Inst. for Air Research (NILU); <sup>3</sup> SINTEF
08-09	<b>Monitoring the Water Quality using Citizen Science Approach</b>	Kocaman Sultan	Junior professor Sultan Kocaman; Muge Andac; Junior professor Berk Anbaroglu; Aysenur Ugurlu	Hacettepe Univ. Faculty of Engineering
08-10	<b>Understanding the barriers between citizens and authorities in environmental monitoring</b>	Mazumdar Suvodeep	Fabio Ciravegna; Suvodeep Mazumdar; Neil Ireson	Univ. of Sheffield

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08-11	Citizen Science Against Globalized Mosquito-Borne Diseases	Palmer John	John Palmer <sup>1</sup> ; Aitana Oltra <sup>2</sup> ; Frederic Bartumeus <sup>3</sup>	<sup>1</sup> Univ. Pompeu Fabra (UPF); <sup>2</sup> Center for Advanced Studies of Blanes (CEAB-CSIC); <sup>3</sup> Center for Advanced Studies of Blanes (CEAB-CSIC); Centre for Ecological Research and Forestry (CREAF)
08-12	Citizens' Observatories in coastal environments: using innovative technologies (DIY instruments and data sonification) for engaging volunteers	Piera Jaume	Raul Bardaji <sup>1</sup> ; Jaume Piera <sup>1</sup> ; Carine Simon <sup>1</sup> ; Luigi Ceccaroni <sup>2</sup> ; Lucas Eznarriaga <sup>2</sup> ; Arturo Tejada <sup>2</sup> ; Filip Velickovski <sup>3</sup> ; Alexander Steblin <sup>3</sup> ; Marc Pous <sup>4</sup>	<sup>1</sup> Inst. of Marine Sciences (ICM-CSIC); <sup>2</sup> 0000 <sup>1</sup> Labs; <sup>3</sup> EURECAT; <sup>4</sup> thethings-IO
08-13	Citizen science as a tool for biodiversity monitoring and surveillance: an assessment of patterns in participation	Pocock Michael	Michael Pocock	Centre for Ecology & Hydrology
08-14	Enhancing Community-Based Climate Resilience and Conservation in the Context of China's Western Development Drive Through Citizen Science	Tyson Elizabeth	Elizabeth Tyson <sup>1</sup> ; Lin Ji <sup>2</sup> ; Shengnian Xu <sup>2</sup>	<sup>1</sup> Woodrow Wilson International Center for Scholars; <sup>2</sup> Global Environment Inst.
<b>Session 09 – Data, metadata, quality and visualisation of citizen science data</b>				
09-01	GBIF - enabling unparalleled data access for research	Archambeau Anne-Sophie	Anne-Sophie Archambeau <sup>1</sup> ; Eric Chenin <sup>2</sup> ; Régine Vignes-Lebbe <sup>3</sup> ; Marie-Elise Lecoq; Sophie Pamerlon; Fabien Cavière	<sup>1</sup> MNHN; <sup>2</sup> IRD; <sup>3</sup> UPMC
09-02	Interoperability in GLOBIS-B	Bowser Anne	Anne Bowser	Woodrow Wilson International Center for Scholars
09-03	Stakeholder Analysis on CS data & metadata standardization	Göbel Claudia	Claudia Göbel	Museum für Naturkunde Berlin, ECSA
09-04	Geofence-driven Crowdsourcing and Citizen Science	Mazumdar Suvodeep	Suvodeep Mazumdar; Neil Ireson; Fabio Ciravegna	Univ. of Sheffield
<b>Session 10 – Exploring the opportunities and challenges: Citizen Science and Responsible Research and Innovation</b>				
10-01	What the Hell are Science Shops? Where do Science Shops, Citizen Science and RRI link	Prystav Gisela	Gisela Prystav <sup>1</sup> ; Katrin Schwahlen <sup>2</sup> ; Michael Strähle <sup>3</sup> ; Christine Urban <sup>3</sup> ; Daniel Ludwig; Björn Huwe <sup>4</sup>	<sup>1</sup> TU Berlin, ZEWK/Wissenschaftsladen kubus; <sup>2</sup> basis.wissen.schafft e.V.; <sup>3</sup> Science Shop Vienna; <sup>4</sup> Wissenschaftsladen Potsdam
10-02	Data management practices in Citizen Science projects – results from a survey	Schade Sven	Sven Schade; Chrisa Tsinaraki	European Commission - Joint Research Centre
<b>Session 11 – Communicating Citizen Science through storytelling</b>				
11-01	Co-authoring interactive citizen science stories with digital media: a walk in a 'bioclimatic luna-park'	Daskolia Maria	Chronis Kynigos <sup>1</sup> ; Maria Daskolia <sup>2</sup>	<sup>1</sup> Educational Technology Lab (ETL), Univ. of Athens; <sup>2</sup> Environmental Education Lab (EEL), Univ. of Athens
11-02	"I try to work with these people" – learning from scientists' citizen science stories	Shirk Jennifer	Jennifer Shirk	Cornell Univ., Citizen Science Association
11-03	Coastwards	Tsakiris Maureen	Maureen Tsakiris <sup>1</sup> ; Athanasios Vafeidis <sup>2</sup> ; Jörn Schmidt <sup>2</sup> ; Martin Quaas <sup>2</sup>	<sup>1</sup> Inst. of Geography, CAU Kiel; <sup>2</sup> Christian-Albrechts-Universität
<b>Session 12 – Gaming for good: Exploring the potential and pitfalls of citizen science games</b>				
12-01	Gaming for good: Exploring the potential and pitfalls of citizen science games	Anne Bowser	Anne Bowser <sup>1</sup> ; Anna L. Cox <sup>2</sup> ; Marisa Ponti <sup>3</sup>	<sup>1</sup> Commons Lab Woodrow Wilson International Center for Scholars, Washington; <sup>2</sup> University College London, UK; <sup>3</sup> University of Gothenburg
<b>Session 13 – Citizen science with small sensor networks complementing traditional insitu observations – gaps, advances and limitations. From activism to collaboration in environmental measurements</b>				
13-01	Environmental monitoring system for urban areas	Brynda Petr	Petr Brynda; Václav Jirovský; Petr Honzík	Czech Technical Univ. in Prague
13-02	How to make use of citizen environmental sensing data?	Jiang Qijun	Qijun Jiang <sup>1</sup> ; Lammert Kooistra <sup>1</sup> ; Arnold Bregt <sup>1,2</sup>	<sup>1</sup> Laboratory of Geo-Information Science and Remote Sensing, Wageningen Univ.; <sup>2</sup> AMS Amsterdam, Inst. for Advanced Metropolitan Solutions, The Netherlands
<b>Session 14 – Science Capital, Science Identity and Learning Through Citizen Science</b>				
14-01	Community Curiosity Labs in Nottingham	Hall Rick	Rick Hall	Ignite!
14-02	"Citizen Tongues" – enriching the spoken languages of Citizen Science	Ramanauskaite Egle Marija	Egle Marija Ramanauskaite	Svencioniu raj., Lithuania
14-03	Citizen Science and learning: formal, informal or at scale?	Scanlon Eileen	Eileen Scanlon <sup>1</sup> ; Tim O&#039;Shea <sup>2</sup> ; Patrick McAndrew	<sup>1</sup> The Open Univ.; <sup>2</sup> Univ. of Edinburgh



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# What to do on Sunday, 22 May

## Blue Man Group

Stage Bluemax Theater, Marlene-Dietrich-Platz 4 (Potsdamer Platz), 18:00 h, from € 65

<http://www.stage-entertainment.de/musicals-shows/blue-man-group-berlin.html>

## Musical: Tanz der Vampire (Dance of the Vampires)

Stage Theater des Westens, Kantstr. 12 (close to station Bahnhof Zoo), 14:30 and 19:30 h, from € 55

<http://www.stage-entertainment.de/musicals-shows/tanz-der-vampire-berlin.html>

## Concerts

Komische Oper Berlin, Behrenstr. 55–57 (underground station Französische Straße or Brandenburger Tor)

<https://english.komische-oper-berlin.de/home/>

## Berliner Philharmonie

Philharmonie 16:00 h: Sing-Along Concert of the Rundfunkchor Berlin

Chamber Music Room 16:00 h: Sunday Concert Series of the Chorverband Berlin

Philharmonie 20:00 h: Sunday Concert Series of the Chorverband Berlin

Chamber Music Room 20:00 h: Katja Riemann

Philharmonie Berlin, Herbert-von-Karajan-Str. 1

<http://www.berliner-philharmoniker.de/en/>

## Berlin Guided Tours

e.g. <http://www.visitberlin.de/en/article/guided-tours>

## The Berlin Wall Bike Tour

Duration: 2.5 h, in English, at Bike depot, Kulturbrauerei Hof 4, Knaackstraße 97: 11:00 h, regular € 21, students € 18

<https://www.getyourguide.com/berlin-117/>

## Bridge tour at night

Duration: approx. 3 h

From bridge Jannowitzbrücke or Friedrichstraße (Reichstagsufer), 18:30 h (Friedrichstr.)

19:00 h Jannowitzbrücke

€ 23

<https://reederei-riedel.de/en/tours/bridge-tours/>

Optional: Menu € 19.50 (please book beforehand)



# Organisational Hints

## WLAN Access

Network: Citizen Science  
Password: ECSA2016

## Hashtag

#ecsa2016

## Registration Desk

If you require any assistance throughout the conference please see Ogarit Uhlmann or Hildegard Feldmann at the registration desk. The registration desk will be open during the conference day. The conference notice board will be placed at the registration desk and will be used to display conference information, programme changes, announcements and messages. Please check the board regularly.

Contact phone numbers during conference: +49 (0) 173 35 39 301 > Ogarit / +49 (0) 173 35 39 298 > Hilde

## Name Badges

Please wear your name badge all the time.

## Cell Phones

Please ensure that cell phones and /or pagers are turned off, or silent, during all presentations.

## Refreshment Breaks

Coffee breaks and lunches are included and will be served in the room Palais Saal.

## Talks

**Uploading Your Presentation:** To ensure the smooth running of the programme, please upload your talk as soon as possible and the latest on the morning of your session in your lecture hall. In the lecture halls, technical assistance / helpers will be around to help you (blue name badges).

**Time:** We emphasise the importance of starting and finishing your talk according to the instructions of your session chair(s) on time – so that parallel sessions stay synchronised. Presenters are kindly asked to sit if possible in the front of the room, for a fast changeover of speakers.

**Preparation:**

- Please meet your session chair 10 minutes before the session starts in the session room.
- Check your presentation runs correctly.
- Familiarise with AV gear, micro, pointer etc.
- Please bring your file on a memory stick with the presenters name in file name.

## Posters

**Poster Unit Size:** A0 portrait (84.1 width x 118.9 cm height)

**Mounting method:** pins

**Your poster number:** You will find your poster number on your poster board. Poster lists in alphabetical order of presenter's last name are on display. Please dismount your poster at the end of the lunch break on Saturday or latest after the end of the conference day on Saturday, 21 May.

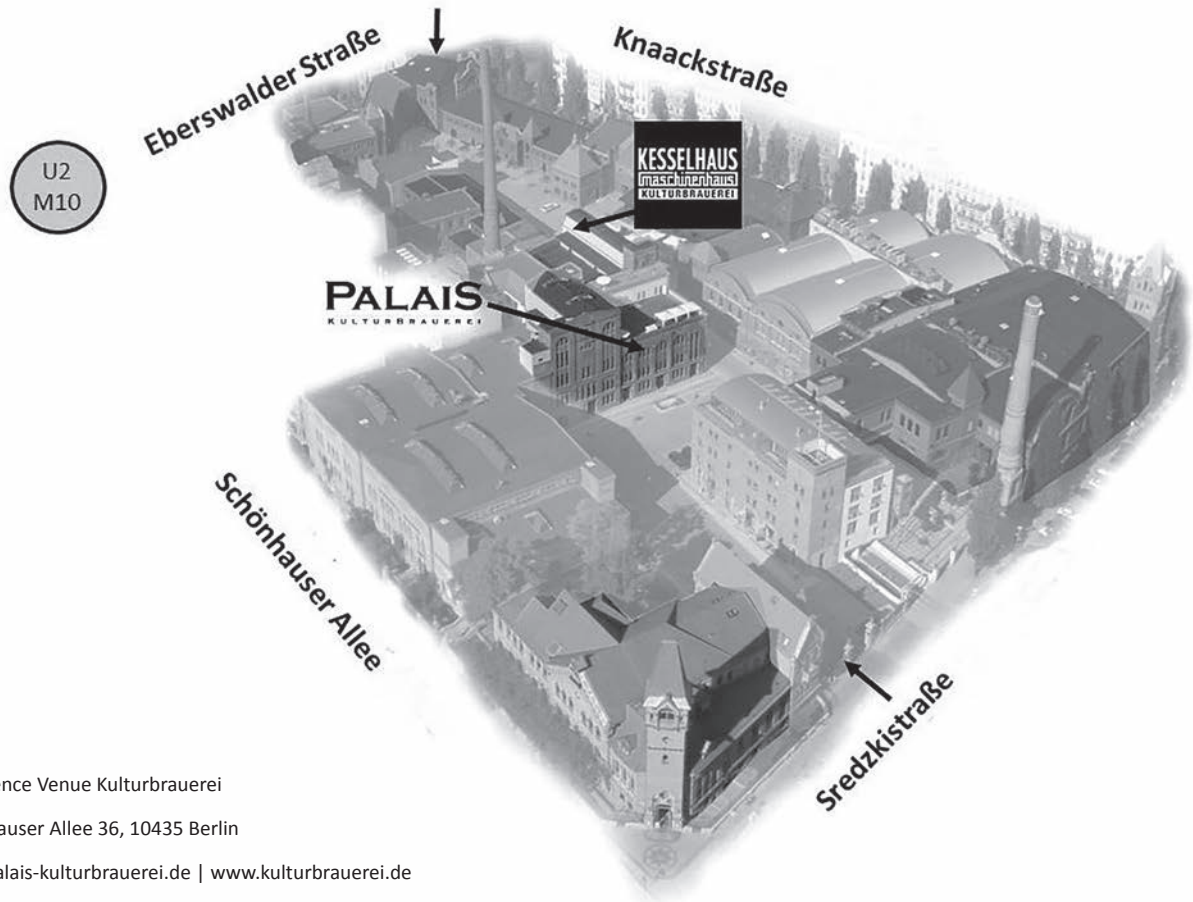
## Lost & Found

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# Organisational Hints



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## Imprint

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