

Annex 1. List of training courses in “Energy” thematic domain

No	Name of the event	Organizer	Abstract	Venue, date/dates	Website
1	Polytech summer energy school	Peter the Great Saint-Petersburg Polytechnic University	Topics: Nuclear Engineering, Turbomachinery, Electrical Engineering, Oil and Gas in energy industry, Digitalization in energy industry Related subject(s): Engineering (general), Mechanical engineering	Saint Petersburg, Russia, 20 Jul - 31 Jul 2020. This year has moved entirely online	http://energyschool.spbstu.ru/ss/
2	NiPS Summer School	NiPS Lab - The Noise in Physical System Laboratory	The Noise in Physical System Laboratory is glad to announce the 11th edition of NiPS Summer School devoted to the topics of Energy harvesting and Computing performances. The school is open to graduate students, post-docs, young researchers, and in general to all scientists interested in the physical foundations and practical applications of energy transformations...	7Jul - 10 Jul, 2020, More information about an alternative event/date will be in the coming months	https://www.nipslab.org/nips-summer-school-2020/
3	The 2nd Summer School and Doctoral Colloquium of SFERA-III	SFERA III Solar Facilities for the European Research Area	Summer School: (including technical visit). Topic “Solar process heat for Industrial applications and Desalination”. Open to a large audience	The event is postponed to a later date. More information (detailed programme, registration...) will be available soon.	https://sfera3.sollab.eu/2020/01/23/2nd-summer-school-doctoral-colloquium/



4	<p>FOREVER summer school</p>	<p>The European project LEU-FOREVER (Low Enriched Uranium Fuels FOR REsearch Reactors)</p>	<p>The European project LEU-FOREVER aims to secure a reliable fuel supply for the European research reactors. The FOREVER summer school aims at:</p> <ul style="list-style-type: none"> - Increasing general knowledge of research reactor fuels; - Improving understanding of research reactor fuel performance; - Understanding operation and safety of research reactors; - Increasing awareness of utilization of research reactors. <p>Audience The target audience consists of senior Masters students (Physics, Nuclear engineering, Material Science...), PhD students and young professionals working in the area of research reactors. During summer school, a visit to the BR2 reactor at SCK CEN is foreseen. This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 754378.</p>	<p>26 – 30.04.2021 SCK CEN Mol Boeretang 200 2400 Mol Belgium</p>	<p>https://www.sckcen.be/en/events/forever-summer-school-9ac221b3-12f0-e911-80ce-ecf4bbc6e827</p>
5	<p>Basic training in radiation protection</p>	<p>SCK CEN, a global leader in the field of nuclear research, services and education.</p>	<p>This 5-day training course treats the basic physics of radioactive phenomena and ionizing radiation and provides an overview of its most common applications. It shares the most recent knowledge on personal and environmental dosimetry and detection techniques, emergency management and biological effects of ionizing radiation. In addition, it focusses on the legal aspects regarding the use of ionizing radiation. Theoretical classes are complemented by practical exercises on the use of radiation measurement devices and the correct application of personal protective equipment. A technical visit to one of SCK CEN's laboratories enrich and illustrate the acquired knowledge with the practice of real-life situations. As working with nuclear technology requires not only technical knowledge but also an insight into the societal issues, a module is provided in which thinking and discussion about the</p>	<p>19 – 23.10.2020 SCK CEN Mol -Boeretang 200 2400, Belgium</p>	<p>https://www.sckcen.be/en/events/basic-training-radiation-protection-e82c83cb-6022-ea11-80ce-ecf4bbc6e827</p>



			<p>philosophical and ethical dimensions of justifying and using nuclear technology is stimulated.</p> <p>Programme is available: https://academy.sckcen.be/en/Customised_trainings/Calendar/Basic-training-in-radiation-protection-20201116-20201120-e82c83cb-6022-ea11-80ce-ecf4bbc6e827?leftmainmenu=4</p>		
6	<p>Training course on radioactive waste management</p>	<p>SCK CEN, a global leader in the field of nuclear research, services and education</p>	<p>This intensive unique 7-day course will give a comprehensive overview of different aspects involved in the management of radioactive waste. The course modules will handle operational radioactive waste management during collection, characterization, conditioning, transport and (interim) storage. Course topics will focus on international best practices and regulations, national and international state-of-the-art. The course benefits from expertise from the point of view of waste producers, waste management organisations and nuclear regulators.</p> <p>In each aspect of the course, theory is combined with technical visits to allow participants to experience how guidelines and best practices are translated to the field.</p> <p>The course can be followed in full, or participants may choose to follow only particular days/modules.</p>	<p>07 – 15.12.2020 SCK CEN Mol, Boeretang 200 Belgium</p>	<p>https://www.sckcen.be/en/events/training-course-radioactive-waste-management-108a3dba-3f22-ea11-80ce-ecf4bbc6e827</p>
7	<p>Winter School on Models in support of Nuclear Data</p>	<p>The Joint Research Centre of the European Commission in collaboration with the SCK CEN Academy for Nuclear Science and Technology</p>	<p>The objective of the winter school on 'models in support of nuclear data' is to present students the state-of-the-art lectures on measurement techniques to characterize nuclear fission, modeling techniques to model nuclear fission and on techniques on how to combine these in evaluated nuclear data files.</p> <p>This school receives funding from the Horizon 2020 Euratom research and training programme under grant agreement No 847552 (SANDA).</p>	<p>08 – 12.02.2021 Location: EC-JRC Geel - Retieseweg 111 Geel</p>	<p>https://www.sckcen.be/en/events/winter-school-models-support-nuclear-data-23349d16-a86a-ea11-80d0-ecf4bbc6e827</p>



8	<p>Heavy Metal Summer School 2021</p>	<p>The SCK CEN Academy for Nuclear Science and Technology</p>	<p>Heavy liquid metal (HLM) coolants offer new perspectives for the development of innovative nuclear systems for materials research, nuclear waste transmutation and energy production. The Belgian Nuclear Research Centre (SCK CEN) is at the forefront of HLM nuclear technology worldwide with the development of the MYRRHA accelerator driven system. During this summer school, participants will gain insight into the state-of-the-art of research focused to the development of MYRRHA and other HLM-based nuclear systems. The summer school will cover several aspects of HLM technology that are essential for the engineering design and safety of nuclear systems. Places for this summer school are limited to 25. Participants are invited to send in an abstract for a poster presentation on their research project.</p>	<p>17 – 21.0./2021 Location: SCK CEN Mol - Boeretang 200 Mol</p>	<p>https://www.sckcen.be/en/events/heavy-metal-summer-school-2021-2ef3b696-7022-ea11-80ce-ecf4bbc6e827</p>
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Annex 2. List of training courses in “Health and Food” thematic domain

No	Name of the event	Organizer	Abstract	Venue, date/dates	Website
1	Course "How to Operate a Biobank sustainably successful (advanced)"	Medical University of Graz	<p>BBMRI.at partner Med Uni Graz organizes this advanced 5-day biobanking course, which consists of 5 modules. Each module can be booked individually.</p> <p>This course is set up to:</p> <ul style="list-style-type: none"> Deliver theoretical, operating and practical comprehensive knowledge to enable the activities of current and emerging biobanks Transfer best practice principles on this topic for biobank personnel, investigators, clinicians and interested persons Encourage exchange of knowledge and skills on these topics via group works and discussions <p>Target group: All who have already set up a biobank and want to operate a biobank successfully</p> <p>Costs: EUR 950 (5 days) or 260 (per module)</p> <p>Module1: Quality Management, Control and Assurance</p> <p>Module 2: Sample Workflow and Automation</p> <p>Module 3: Design and Services of a Biobank</p> <p>Module 4: Data Management and IT</p> <p>Module 5: Business Plan for a Biobank/Cost Calculation</p>	<p>Date: Nov 30 – Dec 04, 2020</p> <p>Location: Medical University of Graz, Austria</p>	<p>https://www.bbmri-eric.eu/news-events/save-the-date-graz-biomedical-research-workshop</p>
2	IVDR – STATE-OF-THE-ART REQUIREMENTS FOR	BBMRI-ERIC	<p>The goals of this event are:</p> <ul style="list-style-type: none"> - to inform manufacturers and users of most in vitro diagnostic devices (IVDs) about the European In Vitro Diagnostic Medical Device 	<p>20 Oct 2020, Vienna (Due to the corona pandemic this event was postponed from 18 May 2020)</p>	<p>https://www.bbmri-eric.eu/news-events/ivdr-event-vienna/</p>



	ANALYTICAL PERFORMANCE TESTING		Regulation (IVDR), which will be entered into force in May 2022; - - to give insight into the current situation on the IVDR and related ISO standards and CEN Technical Specifications. Special emphasis will be put on the issues scientific validity and requirements for analytical performance testing, including pre-analytical requirements, and clinical performance testing. Target group: employees of IVD-developers, IVD-users (incl. ISO 15189 accredited organizations)		
3	CTLS2020 - CORE TECHNOLOGIES LIFE SCIENCES CONGRESS	EATRIS ERIC -European Advanced Translational Research Infrastructure in Medicine & the CTLS (Core technologies for Life Sciences) association	Core Facilities are key-players in modern institutions. Their still emergent role inevitably entails new paradigms regarding their scope and structure. The CTLS2021 conference aims to address several of these points, contributing to shape the future of the technical and scientific landscape of life sciences in Europe.	September 14-16, 2021. Lisbon	https://www.ctls2021.pt/
4	X OMICS WORKSHOP: "STRATEGIES TO OVERCOME YOUR CHALLENGES IN X OMICS DATA INTEGRATION"	EATRIS ERIC -European Advanced Translational Research Infrastructure in Medicine	Raise awareness for pre-analytical standards as state –of-the-art for selected molecular analyses	September 29, 2020; Nijmegen, Netherlands	https://eatris.eu/events/x-omics-workshop-strategies-overcome-challenges-x-omics-data-integration/
5	International Clinical Trials Day (ICTD) 2021	ECRIN - European Clinical Research Infrastructure Network	In 2005, ECRIN launched International Clinical Trials Day (ICTD) to commemorate the day when James Lind started his famous clinical trial on scurvy in 1747, May 20th, and laid the foundation	Berlin, Germany, 27 May 2021	www.csioffice.de/ictd2020



			for modern clinical research. Celebrated every year on or around May 20th, ICTD is an opportunity for research organisations, clinical research professionals, and the public to acknowledge the achievements that result from clinical research and to discuss various trial topics. ECRIN's annual celebration of ICTD brings together European and international stakeholders.		
6	ICPerMed Conference 2021	International Consortium for Personalised Medicine	<p>The event will demonstrate how personalised medicine will lead to the next generation of healthcare by 2030.</p> <p>The international conference will bring together key opinion leaders along the entire value chain from patient organisations, research infrastructures, industry, education, health care providers, funding organisations, and will welcome representatives from ministries and the European Commission.</p> <p>Keynote lectures will focus on research towards the implementation of personalised medicine approaches into health care systems for the benefit of patients, citizens and the society as a whole and on the question of sustainability. In addition, in specific dedicated sessions, ICPerMed will feature best practice examples in personalised medicine research and will complement the conference programme by demonstrating achievements and activities of ICPerMed and its contribution to foster personalised medicine.</p>	February 25-26, 2021; La Maison de la Chimie, Paris, France	https://www.icpermed.eu/en/ICPerMed-Conference-2020.php
7	First Steps with	ELIXIR, The distributed		1 - 3 December 2020;	https://www.sib.swiss/training/cou



	Python in Life Sciences	infrastructure for life-science information (ELIXIR)		Lausanne, Switzerland	rse/2020-12-python
8	Next Generation Sequencing Bioinformatics	European Bioinformatics Institute (EMBL-EBI)	The course programme for 2020 is under construction, and as further information about the course becomes available the page will be updated. By registering your interest on the page, the organisers will inform you as soon as applications open for the course.	15 - 19 February 2021 European Bioinformatics Institute (EMBL-EBI) - Wellcome Genome Campus, Hinxton, Cambridge, United Kingdom;	https://www.ebi.ac.uk/training/events/2020/next-generation-sequencing-bioinformatics-0
9	Research Data Management in Life Sciences	Ghent University, ELIXIR Belgium	This in-depth course will help researchers to develop their knowledge and practical skills in handling and managing the research data they collect and use. This course will guide the attendees through the key aspects on how to manage, document, store and safeguard research data well and how to plan and implement good data management in research projects in accordance to current best practices. Upon completion of this course, participants should have an understanding of what Research Data Management is, and why it is important in academic research. They should have an understanding of the FAIR data principles, and how they can make data more FAIR. They should be able to manage successfully all types of research data and to document both the research itself, as well as the data in a comprehensive way. This course targets all researchers active in Life Sciences. There is no prior knowledge or programming skills needed.	09 - 10 November 2020	https://training.vib.be/research-data-management-life-sciences
10	First steps with R in Life	ELIXIR, The distributed infrastructure for life-	The "First Steps with R" two-day course will give an introduction to R and Rstudio (an integrated	Lausanne; 27 - 28 October 2020	https://www.sib.swiss/training/courses/2020-10-R



	Sciences	science information	development environment for R) in an interactive manner. Participants will receive example data sets to practise data manipulation, graphical exploration and statistical hypothesis testing. The course is addressed to beginners wanting to become familiar with the R syntax, environment, and the most common commands to start using R to explore and interpret their data. At the end of the course, participants should be comfortable with the R environment and be able to read, understand and write R commands, allowing them to implement and interpret a workflow for their data analysis: interact with the R environment, import data, explore it and summarise it, explore data with graphs, perform simple statistical tests.		
11	NBIS Course Uppsala: Python programming with applications to bioinformatics	ELIXIR, The distributed infrastructure for life-science information		Uppsala, Sverige, 19 – 23 October, 2020	https://tess.elixir-europe.org/events/nbis-course-prel-python-programming-with-applications-to-bioinformatics
12	Data Science School: Machine learning applications for life sciences	University of Cambridge	This School aims to familiarise biomedical students and researchers with principles of Data Science. Focusing on utilising machine learning algorithms to handle biomedical data, it will cover: effects of experimental design, data readiness, pipeline implementations, machine learning in Python, and related statistics, as well as Gaussian Process models. Target audience	Mon 21 Sep - Thu 24 Sep 2020 Venue: Bioinformatics Training Room, Craik-Marshall Building, Downing Site	https://training.csx.cam.ac.uk/bioinformatics/event/3357195



			<p>Students and researchers from life sciences or biomedical backgrounds, who have, or will shortly have, the need to apply the techniques presented during the course to biomedical data.</p> <p>The course is open to Graduate students, Postdocs and Staff members from the University of Cambridge, Affiliated Institutions and other external Institutions or individuals</p> <p>Please note, that all participants attending this course will be charged a registration fee. Non-members of the University of Cambridge to pay £400. All Members of the University of Cambridge to pay £200. A booking will only be approved and confirmed once the fee has been paid in full.</p>		
13	Advanced Statistics: Statistical Modeling	Swiss Institute of bioinformatics	<p>While the statistical models and tools presented in an introductory statistics course (such as linear regression) can be used to answer a wide range of questions in life sciences, many types of data can not be analyzed using these tools.</p> <p>During this course, the statistical models and techniques beyond classical linear modelling will be discussed. Topics include advanced linear models, non-linear models, mixed models, generalized linear models, longitudinal data analysis and GAMs. The emphasis will be put on concrete applications in biology, enabling the participants to analyze data consisting for example of counts or presence/absence of a feature.</p> <p>Audience This course is intended for life scientists who</p>	17-20 Aug 2020 Lausanne	https://www.sib.swiss/training/course/2020-08-advanced-stats



			already use the R programming language and have some basic knowledge of statistics (including statistical tests, correlation and linear models).		
14	3rd Helmholtz Drug Discovery Conference HDDC2020 (postponed)	EU-OPENSREEN ERIC (European Infrastructure of Open Screening Platforms for Chemical Biology)	The new date will be announced very soon.	Location: Helmholtz Centre for Infection Research, Inhoffenstraße 7, 38124 Braunschweig	https://www.helmholtz-hzi.de/de/aktuelles/veranstaltungen/ansicht/event/info/hddc-2020-3rd-helmholtz-drug-discovery-conference/
15	BGRS/SB-2020: 12th International Multiconference "Bioinformatics of Genome Regulation and Systems Biology"	Institute of Cytology and Genetics SB RAS (ICIG SB RAS) Novosibirsk State University (NSU) Ministry of Science and Higher Education of the Russian Federation (Minobrnauki) The Vavilov Society of Geneticists and Breeders Federal State Scientific Budgetary Institution "Scientific Research Institute of Physiology & Basic Medicine" (FSSBI "SRIPBM") Vavilov Journal of Genetics and Breeding	Multiconference BGRS/SB-2020 will include the following symposia and sections: Section "Genomics, transcriptomics and bioinformatics" Section "Structural biology and Computational pharmacology" Section "Biodiversity, molecular evolution and bioinformatics" Section "Systems Biology of Aging" Section "Organization of education process for research in the field of bioinformatics and systems biology" Section "Bioinformatics and systems biology of plants" Symposium "Systems biology, bioinformatics and biomedicine" (SbioMed-2020) Symposium "Cognitive Science and Genomics" (CSGB- 2020) Symposium "Mathematical methods and high-performance computing in the life sciences, biomedicine and biotechnology" Symposium "Mathematical Problems of Covid-19" Symposium "Animal Genetics"	July 6-10, 2020 fully in DISTANCE FORM	https://bgrssb.icgbio.ru/2020/



			Symposium “Systems biology of DNA repair processes and programmed cell death”(SbPCD-2020)		
16	11th World Congress on Alternatives and Animal Use in the Life Science (postponed to 2021)	Maastricht University Institute for human Organ and Disease Model Technologies	World Congresses on Alternatives and Animal Use in the Life Science have been organised in Utrecht (The Netherlands), Bologna (Italy), New Orleans (USA), Berlin (Germany), Tokyo (Japan), Rome (Italy), Montreal (Canada), Prague (Czech Republic) and Seattle (USA). The 11th WC will be held in Maastricht (NL) in 2021. Themes and program The 11th World Congress on Alternatives and the Use of Animal in the Life Sciences will explore the latest in 3R R&D and will provide a multidisciplinary programme covering more traditional themes as well as very latest issues and novel developments in the field of alternatives to animal testing in the life sciences.	22-26 August 2021 MECC Maastricht – The Netherlands	https://wc11maastricht.org/
17	WEBINAR: COVID-19 AND ETHICAL, LEGAL & SOCIETAL ISSUES	BBMRI-ERIC	The webinar focused on the ethical issues encountered and addressed during the COVID-19 outbreak in relation to biobanking, looking at cases from Italy and Germany. Additionally, it will address legal and societal aspects, which ultimately touch upon the intersection between clinical routine and research. Speakers included Michaela Th. Mayrhofer (BBMRI-ERIC), Marialuisa Lavitrano (BBMRI.it), Roland Jahns (German Biobank Node), and Gauthier Chassang (INSERM / BBMRI-ERIC ELSI).	April 24. 2020	https://www.bbmri-eric.eu/news-events/web-conference-covid-19-elsi/ ; https://www.youtube.com/watch?v=o1logkcOZZE&feature=youtu.be



18	EUROPE BIOBANK WEEK 2020 (online)	ESBB and BBMRI-ERIC	<p>Europe Biobank Week 2020 will take place in a virtual format for the first time. The largest biobanking conference in Europe will be fully digitized this year! The conference is a joint effort of ESBB and BBMRI-ERIC. Last year's edition in Lübeck saw the largest number of abstracts submitted (over 280) and over 750 professionals came together to discuss, network, engage, and promote knowledge around biobanking. This year's edition will roll out completely online, creating new opportunities to attend sessions and fully enjoy all the great scientific insights from speakers and panellists. At the same time, it will keep allowing biobanking professionals to discuss, engage, share knowledge and best practices, as in a traditional edition of EBW.</p>	17-20 November, 2020	http://europebiobankweek.eu/
19	Advanced Fluorescence Imaging Techniques (postponed)	EMBL Heidelberg, Germany	<p>This practical course will cover advanced light microscopy techniques and participants will learn how to derive qualitative and quantitative insights on molecular mechanisms in cells and developing organisms. Invited guest researchers together with experts from the EMBL and microscopy professionals will foster an intense information flow with a balance of lectures and practical workshops. The focus of the course will be on the use of fluorescence microscopy to obtain quantitative information about protein dynamics in living samples.</p> <p>Audience This course is directed towards researchers in the life sciences with access to light microscopy</p>	EMBL Heidelberg, Germany, Postponed to 2021 - new dates to be confirmed	https://www.embl.de/training/events/2020/MIC20-02/index.html



			equipment, who have an immediate need to apply the techniques they will learn to solve biological problems at the cellular and molecular level in vivo.		
20	Fundamentals of Widefield and Confocal Microscopy and Imaging (postponed)	EMBL Heidelberg, Germany	<p>This practical course will cover advanced light microscopy techniques and participants will learn how to derive qualitative and quantitative insights on molecular mechanisms in cells and developing organisms. Invited guest researchers together with experts from the EMBL and microscopy professionals will foster an intense information flow with a balance of lectures and practical workshops. The focus of the course will be on the use of fluorescence microscopy to obtain quantitative information about protein dynamics in living samples.</p> <p>Audience This course is directed towards researchers in the life sciences with access to light microscopy equipment, who have an immediate need to apply the techniques they will learn to solve biological problems at the cellular and molecular level in vivo.</p>	EMBL Heidelberg, Germany, Postponed to 2021- new dates to be confirmed	https://www.embl.de/training/events/2020/MIC20-01/index.html
21	11 International workshop on X-ray radiation damage to biological samples - RD11	Paul Scherrer Institute	The Workshop will address the essential questions and challenges of radiation damage to biological samples during their examination with ionizing radiation. The workshop will cover various X-ray and electron scattering techniques, from crystallography to imaging, and offers opportunities for information exchange and discussion among researchers from around the	October 14-16th, 2020 WBGB/019 Forschungsstrasse 111 5232 Villigen PSI Switzerland	https://indico.psi.ch/event/7811/

			<p>globe. Sessions will cover: Biological Studies Affected by Radiation Damage Practical Aspects of Reducing Radiation Damage at Synchrotrons Damage at New Sources - XFEL and 4th generation synchrotrons Radiation Damage in Complementary Fields (incl. CryoEM, ED, imaging)</p>		
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Annex 3. List of training courses in “Social Sciences” thematic domain

N	Name of the event	Organizer	Abstract	Venue, date/dates	Website
1.	Mind the Gap: Critical Perspectives on Migration Theories and Data	Consortium of European Social Science Data Archives CESSDA		3-4 December 2020 Vrije Universiteit Brussel, Brussels, Belgium	http://interfacedemography.be/experiment-workshop/
2.	The ICTeSSH 2020 conference	Science 2.0 Alliance, an international non-profit organization for development and promotion of Science	The ICTeSSH 2020 conference aims to bring together leading SSH researchers, computer scientists, informaticians, publishers, librarians, vendors of research ICT tools, SSH decision makers and others, to exchange and share their experiences and research results on all aspects of ICT enhanced Social Sciences and Humanities. SSH researchers should be awakened to the huge possibilities and avenues for research based on ICT. The future of science is about multidisciplinary collaboration and applying new technologies. ICT tools for SSH researchers already exist, such as research-oriented social networking sites and tools to support scientific research, to manage labs and data, and to enable better communication.	June 29 - July 01, 2020, Online conference - FREE	https://ictessh.uns.ac.rs/



			CESSDA is organising a training on "Using software testing strategies and tools to produce 'fit for purpose' components Training description".		
3.	The GESIS Summer School in Survey Methodology	GESIS - Leibniz-Institute for the Social Sciences	<p>The 9-th GESIS Summer School in Survey Methodology offers high quality training in state of the art techniques and methods of survey research. It aims to:</p> <ul style="list-style-type: none"> - give a broad overview of survey methods; - equip participants with essential skills in the design, planning, execution, documentation and quality assurance of surveys; - provide an opportunity to deeply engage with the different tasks of survey design and implementation (such as questionnaire design, sampling, nonresponse and fieldwork monitoring), different survey modes (such as personal interviews, web surveys, and mixed-mode), and research designs involving surveys (such as mixed methods, factorial surveys, longitudinal surveys and cross-national surveys). <p>Detailed course descriptions and registration at training.gesis.org.</p>	<p>The 9-th GESIS Summer School 2020 will be moved online! from 29 July to 21 August 2020.</p>	<p>https://www.gesis.org/en/services/events/gesis-training/summer-school</p>
4	The Summer School "Digital Tools for	the University of Pisa and CLARIN	The School is addressing all those interested in getting basic and working knowledge of some of the digital tools	THE SUMMER SCHOOL 2020 HAS BEEN CANCELLED	http://digitaltools.labcd.unipi.it



	Humanists”		available today to scholars in many different fields of the Humanities. The topics in the edition of 2020 will include, among others, Natural Language Processing, Digital Philology, Digital Editorship. All the afternoons will be dedicated to hands-on laboratories, and in order to get the maximum benefit from the School, it is recommended to all attendees to bring their own Personal Computer. No specific pre-requisites are requested, except for some familiarity in the use of computers and, of course, a good interest in Digital Humanities.		
5	The European Summer School in Logic, Language, and Information (ESLLI)	Universiteit Utrecht, CLARIN	The European Summer School in Logic, Language, and Information (ESLLI) The ESLLI has been organized since 1989 every year in a different European country. It takes place over two weeks, hosts approximately 50 different courses at both the introductory and advanced levels, attracting around 400 participants each year from all the world. The School provides an interdisciplinary setting in which courses and workshops are offered in logic, linguistics and computer science. The focus of the program of the summer schools is the interface between linguistics, logic and computation, with special emphasis in human linguistic and cognitive ability. Courses, both introductory and advanced, cover a wide	has been postponed to 2-13 August 2021 (see https://esslli.eu/news/corona-virus.html for more information) Location: Utrecht Science Park in the Uithof, Utrecht	https://esslli.eu/



			<p>variety of topics within the combined areas of interest: Logic and Computation, Computation and Language, and Language and Logic. Workshops are also organized, providing opportunities for in-depth discussion of issues at the forefront of research, as well as a series of invited lectures.</p>		
6	<p>CLARIN Annual Conference 2020 in Virtual Form</p>	<p>CLARIN - Common language resources and technology infrastructure</p>	<p>This event is organised by CLARIN ERIC in collaboration with LINHD Digital Humanities Innovation Lab and UNED, the National Distance Education University of Spain.</p> <p>CLARIN2020 is organised for the wider Humanities and Social Sciences communities in order to exchange ideas and experiences with the CLARIN infrastructure. This includes the design, construction and operation of the CLARIN infrastructure, the data, tools and services that it contains or for which there is a need, its actual use by researchers, its relation to other infrastructures and projects, and the CLARIN Knowledge Sharing Infrastructure.</p> <p>The 2020 edition of the CLARIN Annual Conference will go virtual. The organisers are currently working on ways to provide all attendants with an attractive virtual experience and optimal interaction opportunities. The CLARIN Annual Conference is the main annual event for</p>	<p>5 - 7 October, 2020</p>	<p>https://www.clarin.eu/event/2020/clarin-annual-conference-2020-madrid-spain</p>



			those working on the construction and operation of CLARIN across Europe, as well as for representatives of the communities of use in the humanities, and social sciences.		
7	Agile development of the SSH Open Marketplace: User Workshop	Social Sciences & Humanities Open Cloud (SSHOC) project	<p>The SSH Open Marketplace has been in development for over a year now. A preference for the agile approach and UX best practice means the organisers will involve the end users as much as possible up to this point via workshops, interviews, brainstorming sessions and prioritisation meetings.</p> <p>This workshop is about more user feedback and engagement.</p> <p>The organisers will be looking to:</p> <ul style="list-style-type: none"> Raise awareness of how the SSH Open Marketplace can help researchers in their daily activities and supplement the existing EOSC services Collect feedback from the SSH research community on the functionality and content of the SSH Open Marketplace 	<p>Date: 30 June 2020 - 09:00 to 11:00</p> <p>Location: Online at ICTeSSH</p>	<p>https://www.sshopencloud.eu/agile-development-ssh-open-marketplace-user-workshop</p>
8	ICTeSSH2020 - International Conference on ICT enhanced Social Sciences and Humanities 2020 - Free online	Consortium of European Social Science Data Archives CESSDA	<p>The ICTeSSH 2020 conference aims to bring together leading SSH researchers, computer scientists, informaticians, publishers, librarians, vendors of research ICT tools, SSH decision makers and others, to exchange and share their experiences and research results on all aspects of ICT enhanced Social Sciences and Humanities</p>	<p>June 29 - July 01, 2020, online</p>	<p>https://ictessh.uns.ac.rs/</p>



	conference				
9	N/A now, but will be on regular basis	The Research Data Alliance			https://rd-alliance.org/events.html
10	IASSIST 2020 TURNS IASSIST 2021	International Association for Social Science Information Service and Technology; Swedish National Data Service (SND)	The organisers have decided to postpone the conference for a year. IASSIST 2021 will take place next year. The conference theme, “Data by Design: Building a Sustainable Data Culture”, emphasizes two core values embedded in the culture of Gothenburg and Sweden: design and sustainability. They invite you to explore these topics further, and discuss what they could mean to data communities.	Gothenburg, Sweden 7-9 April, 2021	https://www.iassist2021.org/
11	2020 LIS Introductory Summer Workshop	Cross-National Data Center in Luxembourg	The LIS Introductory Summer Workshop, held in Luxembourg, is a one-week intensive course designed to introduce researchers in the social sciences to comparative research on income distribution, employment and social policy, using the Luxembourg Income Study Database (LIS) and the Luxembourg Wealth Study Database (LWS). The workshop format includes a mix of lectures on comparative research, laboratory sessions and individual one-on-one advisory sessions. By the end of the workshop, attendees will be fully trained to use the databases independently and will have had the	06-10 July 2020 in Luxembourg.	https://www.lisdatacenter.org/news-and-events/workshops/2020-lis-introductory-summer-workshop/



			opportunity to work and be advised on their own project.		
12	Joint EOSC-hub - FREYA - SSHOC event	EOSC-hub and SSHOC (Social Sciences & Humanities Open Cloud)	This 3-day conference will take place in Amsterdam, from the 16th until the 18th of November 2020. More details will come soon. Keep an eye on our channels.	Monday, November 16, 2020 - 09:00 to Wednesday, November 18, 2020 - 18:00 Amsterdam	https://eosc-hub.eu/events/joint-eosc-hub-freya-sshoc-event
13	DARIAH Annual Event 2020	DARIAN -consortium	The DARIAH Annual Event 2020 will have a conference format combining keynotes, papers, workshops and poster presentations. It is the main annual gathering of the DARIAH community but also open to people outside DARIAH, humanities researchers, representatives of (digital) humanities communities, librarians, GLAM representatives, information scientists, computer scientists etc. More information on the DARIAH Annual Event 2020 will follow soon!	Date: 10 November 2020 - 08:30 to 13 November 2020 - 18:00 Location: Zagreb, Croatia	https://sshopencloud.eu/dariah-annual-event-2020



Annex 4. List of training courses in “Environment” thematic domain

No	Name of the event	Organiser	Abstract	Venue, date/dates	Website
1	The 5th ICOS Summer School "Challenges in measurements of greenhouse gases and their interpretation"	The school is co-sponsored by the EU project RINGO, ICOS ERIC, ICOS Carbon Portal and ICOS Finland	<p>The school will be organized in three sections:</p> <ul style="list-style-type: none"> - Ecosystem fluxes and measurements - Atmospheric composition and measurements (in-situ and remote sensing) - Modeling of the global climate, carbon cycle, atmospheric transport and chemistry <p>The last two sections will each include a practical session.</p> <p>The school is mainly oriented to PhD students, but a number of PostDocs and master students preparing to start a Doctorate will be accepted. Organisers especially encourage students from ICOS non-member European states to apply, but application is open to other applicants as well.</p> <p>The scope of the Summer School is of course closely related to the (European) research infrastructure ICOS and the RINGO project.</p>	28 OCTOBER-6 NOVEMBER 2020 .	https://www.icos-cp.eu/event/878
2	The 4th ICOS Science Conference (virtual)	Integrated Carbon Observation System (ICOS), a pan-European research infrastructure	The theme of the conference is "Knowledge for shaping the future – understanding our earths' biogeochemical processes".	15-09-2020 to 17-09-2020; it will be virtual	https://www.icos-cp.eu/news-and-events/science-conference/icos2020sc
3	First IS-ENES autumn school on climate data use for impact and adaptation	IS-ENES3-Infrastructure for the European Network for Earth System Modelling	The first IS-ENES autumn school on 'Climate data use for Impact and adaptation assessments', which will comprise 5 days, is organized in Autumn 2020 (October-November) in the Czech Republic. During the school, climate scientists and climate	Oct 26, 2020 09:00 AM to Oct 30, 2020 10:00 AM (Europe/Vienna / UTC100) (Due to the Covid-19 situation, the format of	https://is.enes.org/events/trainings-and-education



	assessments		<p>impact researchers will interact on topics like climate models, climate data and the creation of new assessment tools.</p> <p>The school aims at:</p> <ul style="list-style-type: none"> Giving Vulnerability, Impact and Adaptation researchers, climate services providers, etc. basic knowledge for working with climate data and introduce them to the tools to access, visualize and process climate data Enhancing interaction between climate scientists and impact researchers Making knowledge of the IS-ENES consortium available for young scientists all over Europe 	<p>the school is under discussion to be adapted. More information will be provided soon)</p>	
4	Aerosol Remote Sensing (ARS-ARES) Workshop (virtual)	ACTRIS- the European Research Infrastructure for the observation of Aerosol, Clouds and Trace Gases.	<p>Aims: 1. Present and discuss about the changes in the atmosphere during COVID-19 lockdown and relaxation period; set the goals for publications</p> <p>2. Present and discuss about the lessons learnt during the NRT campaign in May 2020; set a strategy for optimizing the workflows between the stations, CARS (ACTRIS Centre for Aerosol Remote Sensing) and ARES (Aerosol Remote Sensing Unit of the ACTRIS Data Centre)</p> <p>Registration is open until 02.07.2020.</p>	<p>Monday 6 - Wednesday 8 July 2020 Virtual Workshop - Remotely held via Zoom</p>	<p>https://www.actris.eu/Events/Events/AerosolRemoteSensingWorkshop.aspx</p>
5	TDWG 2020 – A Virtual Conference: the annual Biodiversity Information Standards Conference (online)	DiSSCo -Distributed System of Scientific Collections	<p>TDWG 2020 will be a virtual conference divided into working sessions (Sep 21-25) followed by a second week dedicated to dissemination and sharing (Oct 19-23).</p> <p>Standards that describe and support the exchange of biodiversity information are a critical scientific infrastructure. They enable data to be integrated in support of research, as well as decision-making and</p>	<p>Sept. 21-25, 2020; October 19-23</p>	<p>https://www.dissco.eu/tdwg-2020-a-virtual-conference/</p>

			<p>planning for conservation. Ultimately, standards extend the usability of data across taxa, scientific disciplines, and administrative boundaries. The annual Biodiversity Information Standards conference (organized by TDWG) will serve two purposes:</p> <ul style="list-style-type: none"> - to provide a forum for developing, refining, and extending standards in response to new challenges and opportunities; and - to provide a showcase for biodiversity informatics – much of which relies on the standards created by TDWG and other organizations. <p>This year, TDWG 2020 Conference will be virtual — a collection of online working sessions, webinar-style symposia, presentations, panel discussions, and recorded presentations.</p> <p>Working sessions will be scheduled during the week of September 21-25, and dissemination sessions will be scheduled the week of October 19-23.</p>		
6	12th edition of Sea Tech Week (online)	The European Multidisciplinary Seafloor and water column Observatory (EMSO)	<p>Attracting almost one thousand participants every two years, Sea Tech Week is an opportunity to experience the Campus mondial de la mer community’s expertise first-hand and to forge collaborative international relations. The key theme for the 12th Sea Tech Week® will be ‘Observation: From seabed to space’. Sub-themes include, but are not limited to technological innovation, data, climate, biodiversity, regulations, maritime security and biological and energy resources. There will be plenary sessions, paper sessions.</p>	12th – 16th October 2020	https://www.seatechweek.eu/



7	<p>EPOS SP / AdriaArray international remote workshop</p>	<p>EPOS (Landmark) European Plate Observing System</p>	<p>The workshop will be organized virtually in the first week of November, with possible extension to the beginning of the second week (2-to-6 & 9 November 2020). The exact dates and the schedule of the daily activities will be communicated as soon as possible. The workshop will be merged with the event "ORFEUS Annual Observatory Meeting and Workshop", with its focus on permanent seismic networks in Southeastern Europe, and likely with the outreach events of the EPOS SP (Sustainability Phase) project.</p> <p>The registration will be reopened to update the availability of the previously registered participants & speakers, and to allow a larger attendance thanks to the virtual nature of the meeting.</p> <p>Information will be distributed in due time, as it becomes available.</p>	<p>Monday, November 2, 2020 to Monday, November 9, 2020</p>	<p>https://www.epos-ip.org/events/epos-sp-adriaarray-international-remote-workshop-first-half-november-2020</p>
8	<p>2ND SEADATA CLOUD USER WORKSHOP: HI-TECH TO HIGH KNOWLEDGE (WEBINAR)</p>	<p>SeaDataCloud</p>	<p>The SeaDataCloud is an EU H2020 project aimed at advancing the SeaDataNet infrastructure: a powerful virtual data management system providing integrated and standardized data and products on-line.</p> <p>Currently, over 100 National Oceanographic Data Centres from 34 European coastal states make up the SeaDataNet network, giving access to more than 2.0 million high quality data sets.</p> <p>Data, spanning from physical oceanography, chemistry, geology, to geophysics, bathymetry and biology, have been collected by using a kaleidoscope of remote sensing and in situ instruments.</p>	<p>SEPTEMBER 17TH, 2020 AT 10.00 AM UTC+2</p>	<p>https://www.seadatanet.org/Events/User-workshops/SDC-2nd-user-Workshop</p>



9	<p>The Empowering Biodiversity Research Conference</p>	<p>The Belgian Biodiversity platform</p>	<p>Five years after the "Empowering Biodiversity Research" conference in May 2015, a new journey into the world of biodiversity data standards and tools is offered. Projects that started five years ago are about to deliver what was promised and many new biodiversity informatics related projects were launched since then. Concepts such as Open Data, Open Access and Open Science are now increasingly known across disciplines and are changing the way science is being conducted.</p> <p>OBJECTIVES</p> <p>Explore and discuss the opportunities and strengths related to Biodiversity Informatics and Open Data & Open Science</p> <p>Learn about Belgian research projects using biodiversity informatics tools to enhance their results</p> <p>Network with fellow biodiversity scientists</p>	<p>The Empowering Biodiversity Research Conference will be postponed to 2021.</p>	<p>http://www.biodiversity.be/4443 or http://www.biodiversity.be/2/</p>
10	<p>37th General Assembly (GA) of the European Seismological Commission. ESC2020 (Postponed to 2021)</p>	<p>The EPOS SP project and National and Kapodistrian University of Athens Department of Geology and Geoenvironment Section of Geophysics - Geothermics</p>	<p>The 37th GA of the ESC will be held in Corfu. In 2020 about 700 early-career and senior researchers from more than 60 countries from Europe and all over the world will meet in Corfu to discuss different modern fields of seismology and related applications. The organisers are anticipating about abstracts covering the broad fields of seismic networks, seismic hazard and risk, physics of earthquakes, study of the Earth's interior, array seismology, engineering seismology, induced seismicity, seismic anisotropy, earthquake forecasting, statistical seismology, historical seismology and microseismology, recent significant earthquakes, earthquake secondary effects, as well as education, outreach and societal implications, making the 2020</p>	<p>Corfu (Greece), 19-24 September 2021</p>	<p>http://www.esgreece2020.eu/</p>



			ESC General Assembly one of the largest meetings ever.		
11	The Ecosystem Services Partnership (ESP) - ESP Europe 2020	ALTER-Net: A Long-Term Biodiversity, Ecosystem and Awareness Research Network	The third ESP Europe Regional conference will take place in Tartu, Estonia from 21-24 September 2020. The conference theme is 'Ecosystem Service Science, Policy and Practice in the face of Global Changes'. Impacts of global changes on ecosystems and human societies are manifold. Changes have already led to tangible impacts, such as climate change, which has unfolded over the course of the last decade in the form of weather extremes, droughts, and large wildfire. Along with shifting climate patterns, biodiversity loss is causing structures and functions of ecosystems to be more vulnerable to change, and is altering the supply of vital ecosystem services. Land use and land cover changes as well as global trading and land ownership patterns cause further impacts on social-ecological systems. Such changes often lead to inequality between richer and poorer countries and to the radicalization of politics, which then undermine a society's capacity to cope with these growing impacts. In this context, ecosystem services science, policy and practice offer tools needed to tackle the challenges ahead. More importantly, the appropriate use of the ecosystems services concept can shift societies and governance systems towards sustainable pathways.	Tartu, Estonia from 21-24 September 2020.	http://www.alter-net.info/events/esp-europe-2020-tartu-estonia
12	The S4BioDiv 3rd International Workshop on Semantics for	LifeWatch ERIC, a European Infrastructure Consortium	The S4BioDiv 3rd International Workshop on Semantics for Biodiversity has issued a call for papers. Authors are invited to submit for inclusion topics related the application and development of	Bolzano, Italy, 16 September, 2020.	https://fusion.cs.uni-jena.de/s4biodiv2020/



	Biodiversity		<p>semantic technologies to support research in the biodiversity and related domains. In the light of the coronavirus crisis, the conference may need to be held virtually. The final format of the conference will be determined in June 2020.</p> <p>The workshop, which is supported by LifeWatch ERIC, aims to bring together computer scientists and biologists, working on Semantic Web approaches for biodiversity, ecology and related areas such as plant sciences, agronomy, agroecology or citizen science related to biodiversity. The focus will be on presenting challenging issues and solutions for the design of high-quality biodiversity information systems leveraging Semantic Web techniques.</p>		
13	The Deep-Sea Biology Society's first ever online conference	LifeWatch ERIC, a European Infrastructure Consortium	<p>eDSBS is open to everyone in the deep-sea biology community, and talks and posters are welcomed on any subject that fits within our sessions. As the global pandemic has prevented the normal conference cycle this year, the trustees of the Society have decided that priority will be given to early-career researchers who need to present their work as part of their career milestones. However, we are very keen to receive abstracts from everyone to ensure we have a good balance of presenters.</p> <p>Note that eDSBS is not a replacement for the normal deep-sea biology in-person meetings (e.g. the Deep-Sea Biology Symposium, the Deep-Sea Coral Symposium or the Chemosynthesis-Based Ecosystems meetings). The cycle of these physical meetings is planned to continue from 2021. eDSBS will also host the 2020 Annual General Meeting</p>	Online, 20-21 August 2020	<p>https://www.lifewatch.eu/event/s/-/asset_publisher/2QkguCql6q39/content/the-deep-sea-biology-society-s-first-ever-online-conference/10194</p>



			(AGM) of the Society, where the Trustees will present our financial reports and overview of activities of the past year, award prizes, and go over our plans for the next year.		
14	The LifeWatch ERIC annual conference (postponed) -BEeS	LifeWatch ERIC, a European Infrastructure Consortium	BEeS Conference was the LifeWatch ERIC annual conference, which has been postponed because of the COVID-19 pandemic.	New dates and conference details will be communicated as soon as possible.	https://www.lifewatch.eu/event/s/-/asset_publisher/2QkguCqI6q39/content/postponed-bees-conference/10194
15	International partnership in Ice Core Sciences 3rd IPICS Open Science Conference (postponed)	Paul Scherrer Institute & University of Bern	Ice cores provide information about past climate and environmental conditions as well as direct records of the composition of the atmosphere on timescales from decades to hundreds of millennia. With the pioneering work of Hans Oeschger of University of Bern on carbon dioxide in polar ice cores, a long tradition of ice core research in Switzerland began. Less known is that Hans Oeschger also initiated a high-alpine drilling project on Colle Gnifetti in Switzerland in the 1970s. To acknowledge Hans Oeschger's important contribution to these two ice core fields and to foster the link between the corresponding communities the theme of the conference is Ice Core Science at the three Poles.	The conference is postponed to 2021 Crans-Montana, Switzerland	https://indico.psi.ch/event/6697/

Annex 5. List of training courses in “Physical Sciences and Engineering” thematic domain

No	Name of the event	Organiser	Abstract	Venue, date/dates	Website
1.	LHCP 2020 - LARGE HADRON COLLIDER PHYSICS CONFERENCE	CERN, Sorbonne University in Paris - Pierre et Marie Curie campus (online)	The LHCP conference series started in 2013 after a successful fusion of two international conferences, "Physics at Large Hadron Collider Conference" and "Hadron Collider Physics Symposium". The conference program is devoted to a detailed review of the latest experimental and theoretical results on collider physics, and recent results of the LHC Run II, and discussions on further research directions within the high energy particle physics community including both theory and experiment sides. The main goal of the conference is to provide intense and lively discussions between experimentalists and theorists in research areas such as the Standard Model Physics and beyond, the Higgs Boson, as well as the recent progress in the high luminosity upgrades of the LHC and future collider's developments.	Paris (France), 25 May 2020 - 30 May 2020 lhcp2020 conference will be organised online	http://www.lhcp2020.fr/
2.	QENS/WINS 2021 — 14TH QUASI-ELASTIC NEUTRON SCATTERING & 9TH WORKSHOP ON INELASTIC NEUTRON SPECTROMETERS	Materials Physics Center, CFM-MPC, Spain	The main purpose of QENS 2021 is to cover the broad spectrum of scientific activities related with the investigation of material dynamics using quasi-elastic neutron scattering techniques (accessing both, frequency and time domains). QENS 2021 will offer a platform for discussion and exchange of scientific ideas among the experts in this field, and a general overview to newcomers about the capabilities of QENS in exploring atomic and molecular motions and relaxation processes of novel materials. As a novelty, this QENS Edition will explore and exploit the potential synergies between different methods (including experimental	San Sebastián, Spain, 17-21 May 2021 (new dates)	http://qens-wins2020.dipc.org/



			techniques and simulations, but always with QENS in the spotlight), in order to face diverse scientific challenges emerging in different research fields.		
3.	PSI COURSE FOR MASTER STUDENTS: INTRODUCING PHOTONS, NEUTRONS AND MUONS FOR CONDENSED MATTER PHYSICS AND MATERIALS SCIENCE	Paul Scherrer Institute in Villigen, Switzerland	<p>The aim of the course is that the students acquire a basic understanding on the interaction of photons, neutrons and muons with matter and how one can use these as tools to solve specific problems on condensed matter and materials research.</p> <p>Content</p> <ul style="list-style-type: none"> Interaction of photons, neutrons and muons with matter Production of photons, neutrons and muons Experimental setups: optics and detectors Crystal symmetry, Bragg's law, reciprocal lattice, structure factors Elastic and inelastic scattering with neutrons and photons X-ray absorption spectroscopy, x-ray magnetic circular dichroism Polarized neutron scattering for the study of magnetic materials Imaging techniques using x-rays and neutrons Introduction to muon spin rotation Applications of muon spin rotation 	PSI Villigen, Switzerland, 15 Jun 2020 - 19 Jun 2020 It takes place at the campus of the Paul Scherrer Institute.	https://indico.psi.ch/event/7949/
4.	2020 ANNUAL MLZ CONFERENCE: NEUTRONS FOR LIFE SCIENCES (postponed)	The Heinz Maier-Leibnitz-Zentrum (MLZ)	Life Sciences is a rapidly expanding field in the use of neutrons. The number of users at the Heinz Maier-Leibnitz-Zentrum (MLZ) performing experiments related to life sciences is constantly growing. Be it contrast variation for matching out protein, DNA or lipids or the hunt for catalytical important hydrogen atoms, neutrons play an important role in determining structures of	Initially this Conference was supposed to be held from 16 to 19 June 2020; due to the Covid-19 pandemic it has been postponed to 2021.	https://indico.frm2.tum.de/event/230/



			biologically relevant molecules or membranes. Neutron tomography on living plants or tissue uses the huge difference in incoherent scattering of hydrogen as compared to deuterium. Using incoherent and coherent inelastic neutron scattering, investigation of equilibrium dynamics of biological systems is possible on the picosecond and nanosecond time scale. With future neutron sources, time resolved investigations will become more and more important. Dedicated sample environment and additional in situ measurement techniques all optimized for small sample volumes will be needed in the future.		
5	The MLZ User Meeting and the German Neutron Scattering Conference DN2020	The Heinz Maier-Leibnitz Zentrum (MLZ)	This year, the MLZ User Meeting will take place December 08th to 09th and is directly linked to the German Neutron Scattering Conference DN2020 on December 09th and 10-th, which is hosted at Munich for the second time after 2008. A common poster session is going to link both meetings and will give the opportunity for exchange between the participants of both events. As an exception, MLZ supports DN2020 by bearing the costs, which enables simultaneous registration and abstract submission for both, the MLZ User Meeting and DN2020.	Starts 8 Dec 2020, 12:00 Ends 10 Dec 2020, 18:00 Europe/Berlin Hilton Hotel Munich Park Am Tucherpark 7, 80538 Munich, Germany	https://indico.frm2.tum.de/event/225/
6	BOMBANNES 2021 — 15TH BOMBANNES SUMMER SCHOOL ON SCATTERING METHODS APPLIED TO SOFT CONDENSED	The Institut Laue-Langevin (ILL)	The Bombannes summer school is devoted to the practical «state-of-art» approach to scattering methods, using neutrons, as well as X-ray and light sources - today's key techniques to study structure and dynamics in systems containing colloids, polymers, surfactants and biological macromolecules. Since 1990 the Bombannes school series introduces, on a fundamental level, the current methodology of static and dynamic scattering	Gironde, France, 15 Jun 2021 - 23 Jun 2021	https://workshops.ill.fr/event/219/



	MATTER (postponed)		techniques and their application to soft matter systems. It provides with a period of 2 years advanced training for young researchers with a working place in European laboratories at post-graduate and post-doctoral level.		
7	SXNS16 — 16TH INTERNATIONAL CONFERENCE ON SURFACE X-RAY AND NEUTRON SCATTERING (postponed to 2021)	European Spallation Source and Max IV Laboratory	The conference will emphasize novel techniques for surface x-ray and neutron scattering including instrumentation and source development. Topics: in-situ and in-operando surface studies, nanostructured surfaces and interfaces, surface and interfaces in soft matter, biological interfaces, emergent interfacial materials, and dynamics of surfaces, interfaces and nanostructures. Related subject(s): X-rays, Synchrotron Radiation and Crystallography, Condensed Matter Physics and Materials	Lund, Sweden, 14th-18th June 2021	https://www.sxns16.org/
8	DLSR 2020 — 7TH INTERNATIONAL DIFFRACTION LIMITED STORAGE RING WORKSHOP (postponed)	MAX IV Laboratory in Lund, Sweden	The 7-th Diffraction Limited Storage Ring (DLSR) Workshop will be hosted by the MAX IV Laboratory. Following the path of the previous year's meetings, both the technical challenges and the new research enabled the new multi-bend achromat storage rings will be addressed at this two and a half day workshop. Plenary and parallel oral session in combination with a poster session will focus on the design, construction, commissioning, and operation of accelerator, beamline, and experimental systems. Tailored tours of the MAX IV facility will also be included in the program. Related subject(s): Particle Accelerators	Lund, Sweden, 2021-04-12 to 2021-04-14	https://www.maxiv.lu.se/news/7th-dlsr-1-3-june-2020/
9	EXRS 2020 — EUROPEAN X-RAY	The University of Antwerp (AXES group),	The 2020 edition of the European Conference on X-ray Spectrometry (EXRS) is a biennial conference series that	Brugge, Belgium, 27.06.2021- 02.07.2021	https://www.microbeamanalysis.eu/events/event/70-



	<p>SPECTROMETRY CONFERENCE (postponed)</p>	<p>together with Ghent University (XMI group) and Liege University (CEA); the European Microbeam Analysis Society (EMAS)</p>	<p>started in 1984 in Gothenburg, Sweden. Topics: Interactions of X-rays with matter and fundamental parameters; - Quantification, simulation and modelling;- XRS instrumentation (sources, optics and ED/WD detectors, including mobile devices); - TXRF and related techniques; - PIXE and electron induced XRS; - Synchrotron radiation; - Micro-beams and scanning imaging techniques; - Full field X-ray imaging and tomography; - X-ray absorption and emission spectroscopy; X-ray diffraction; - XRS applications in biology/health, environment, industrial production, cultural heritage, nanotechnology, energy, Related subject(s): Metrology and Instrumentation</p>		<p>exrs-2020-european-x-ray-spectrometry-conference</p>
10	<p>6-TH EUROPEAN CRYSTALLOGRAPHIC SCHOOL</p>	<p>European Crystallographic Association and International Union of Crystallography</p>	<p>Topics of the 6th European Crystallographic School are: Symmetries, point groups, space groups, periodicity, unit cell, Diffraction physics, Sources, detectors, future possibilities, Instrumentation, Crystallization small molecule, Protein production, purification, crystallization, Data collection, reduction, analysis, Structure solutions, refinement, Crystallographic databases (CSD, PDB), Phasing and model building, disorder, twinning, Polymorphism, crystal engineering, supramolecular chemistry, Powder diffraction, Rietveld, Structure analysis and quality control, Data validation, cif and data handling, Non-ambient conditions, Small angle scattering, Electron microscopy, NMR and crystallography, NMR-crystallography, Structure-</p>	<p>Budapest, Hungary, 4 – 10 July 2021</p>	<p>http://www.ecs6.chemcryst.hu/</p>



			property relationship		
11	EXRS 2021 - European X-ray Spectrometry Conference	The University of Antwerp (AXES group), together with Ghent University (XMI group), Liege University (CEA) and the European Microbeam Analysis Society (EMAS)	The European Conference on X-ray Spectrometry (EXRS) is a biennial conference series that started in 1984 in Gothenburg, Sweden. This conference has become a traditional meeting for scientists from around the world working in X-ray spectrometry or using one of its several techniques: X-ray fluorescence (conventional, micro-fluorescence, synchrotron-based and total-reflection), electron microprobe, PIXE, XRD, etc. It represents an exciting discussion forum for basic research and applications of X-ray spectrometry in a rich variety of fields like materials science, chemistry (analysis of materials, quantification), radiation physics, medicine (medical physics, medical imaging), biology, environment, cultural heritage, technology and industry. EXRS is an opportunity to learn more about the latest in theoretical, experimental and applied XRS, to discuss with people from all over the world, to share your own work and to learn from others. The last three conferences were held in Ljubljana, Slovenia 2018; Gothenburg, Sweden 2016 and Bologna, Italy 2014.	27.06.2021 - 02.07.2021 Bruges, Belgium	https://www.microbeamanalysis.eu/events/event/70-exrs-2021-european-x-ray-spectrometry-conference
12	XXV-IUCR - TWENTY-FIFTH CONGRESS AND GENERAL ASSEMBLY OF THE INTERNATIONAL UNION OF CRYSTALLOGRAPHY (postponed)	International Union of Crystallography	Modern crystallography is an interdisciplinary subject covering structural biology, pharmacy and chemistry to physics and materials science. It includes the study of protein structures and also the crystals structures and microstructures of minerals, new functional materials, nanoparticles, bulk materials, and thin films. It is interested also in the relationship between the structure and function of materials. Important related topics is development of instrumental techniques for structural characterization of materials including large facilities	14 - 22 August 2021 Prague Congress Centre Prague, Czech Republic	https://www.xray.cz/iucr/

			<p>XFELs, synchrotrons and neutron sources but also continuous improvement of laboratory equipments, development of optics, better and faster detectors. The core methods of crystallography are X-ray and neutron scattering. However, mainly in last decade, it includes electron diffraction and microscopy, NMR and different spectroscopies. This development also allows investigation of structural changes under extreme conditions such as high and low temperatures, high pressures, time-resolved studies, different in-situ experiments in external fields (magnetic, electric), chemical reactions.</p> <p>The scope of the congress comprises all this.</p>		
13	<p>CSSP20 — CARPATHIAN SUMMER SCHOOL OF PHYSICS 2020</p>	<p>Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH)</p>	<p>The school is aimed at graduate students, post-docs and young or established researchers. Students from all countries are invited to attend. A limited number of stipends to cover the local expenses for students will be available. The first week will concentrate on topics of exotic nuclei and nuclear astrophysics and astroparticles, while the second will address physics with small accelerators and news about the physics and advances at ELI-NP. Topics:</p> <p>Exotic nuclei, Nuclear physics with RIBs, Nuclear physics for astrophysics, Astroparticle physics, Multi-messenger astrophysics, Stellar and laser induced plasmas, Physics at ELI-NP, Applications at small accelerators, Nuclear astrophysics with small accelerators, Accelerators for medical treatments, radioisotope production and industrial applications</p> <p>Related subject(s): Astronomy, Astrophysics and Cosmology, High Energy Physics, Particles and Fields</p>	<p>Sinaia, Romania, postponed, new dates n/a</p>	<p>http://cssp20.nipne.ro/</p>



14	<p>8th SuperSTEM Summer School "Advanced Topics in Cs-corrected STEM and Spectroscopy: Theory meets Experiment"</p>	<p>the Collaborative Computational Project for the Study of the Electronic Structure of Condensed Matter (CCP9) & EPSRC National Research Facility for Advanced Electron Microscopy (UK)</p>	<p>The 8th SuperSTEM Summer School on “Advanced Topics in Aberration-Corrected STEM: Theory meets Experiment”, to be held at the SuperSTEM Laboratory, in Daresbury, U.K. in 2021.</p> <p>The Summer School builds on the established series of schools and workshops held at SuperSTEM every two years. Following recent advances in instrumentation, the school will address advanced topics in Cs-corrected STEM and spectroscopy techniques and introduce theoretical methodologies & computational tools necessary to rationalize and simulate experimental findings.</p> <p>Topics covered:</p> <ul style="list-style-type: none"> principles of aberration diagnosis & correction advanced imaging theory EELS & EDX spectroscopy quantitative image analysis and simulations Introduction to DFT and band structure calculations. <p>The lectures are intended for PhD students, post-doctoral researchers as well as academics and professionals that have an existing background in electron microscopy or relevant theoretical background.</p>	<p>New dates: from 10.07.2021 until 15.07.2021 At Daresbury, U.K.</p>	<p>https://www.superstem.org/school2020</p>
15	<p>ICHEP 2020 — 40TH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS (online)</p>	<p>Charles University</p>	<p>ICHEP is a series of international conferences organized by the C11 commission of the International Union of Pure and Applied Physics (IUPAP). It has been held every two years since more than 50 years, and is the reference conference of particle physics where most relevant results are presented.</p> <p>At ICHEP, physicists from around the world gather to share the latest advancements in particle physics, astrophysics/cosmology, and accelerator science and discuss plans for major future facilities. VIRTUAL</p>	<p>Prague, Czech Republic, 30 Jul 2020 - 05 Aug 2020; After consultations with IUPAP/C11 and IAC the ICHEP2020 conference will take place in the online form between 28 July and 6 August 2020. All accepted abstracts</p>	<p>http://ichep2020.org/</p>



			<p>CONFERENCE REGISTRATION OPEN</p> <p>Thanks to sponsors, Organisers will request no fee.</p>	<p>remain in place and the subscribers as well as the registrants will be contacted. More details will be published soon.</p>	
16	<p>CGS17 — 17TH INTERNATIONAL SYMPOSIUM ON CAPTURE GAMMA-RAY SPECTROSCOPY AND RELATED TOPICS (postponed)</p>	<p>The Institut Laue–Langevin (ILL)</p>	<p>The 17th International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, CGS17 is the seventeenth in the CGS conference series. It takes place at Minatec in Grenoble. The symposium will continue the general themes of the series with special emphasis on gamma-ray spectroscopy. Topics to be discussed in the symposium include, but are not limited to :</p> <ul style="list-style-type: none"> Nuclear Structure Nuclear Reactions Nuclear Astrophysics Fundamental Interactions and Symmetries Nuclear Data Experimental Techniques and Facilities Interdisciplinary Studies and Applications <p>Topics: Nuclear Structure Nuclear Reactions Nuclear Astrophysics Fundamental Interactions and Symmetries Nuclear Data Experimental Techniques and Facilities Interdisciplinary Studies and Applications</p>	<p>CGS17 is postponed to 2021!</p> <p>Minatec 3 Parvis Louis Néel, 38000 Grenoble 23 Aug 2021, 08:00 - 27 Aug 2021, 18:00 Europe/Paris</p>	<p>https://workshops.ill.fr/event/188/</p>
17	<p>CHANNELING 2020 — 9TH INTERNATIONAL CONFERENCE "CHARGED & NEUTRAL PARTICLES CHANNELING PHENOMENA"</p>	<p>Istituto Nazionale di Fisica Nucleare (INFN), European Organization for Nuclear Research (CERN), National Research Nuclear University MEPhI (MEPhI)</p>	<p>The international conference “Channeling - Charged and Neutral Particles Channeling Phenomena” is devoted to the common discussion on advances in physics of coherent/incoherent interaction of relativistic and nonrelativistic hadrons and leptons (protons, ions, electrons, muons and related antiparticles) in strong electromagnetic fields of various origins and structures, from solid amorphous and crystalline to laser and plasma based ones. The topics of the Channeling</p>	<p>13-18 June 2021 Riccione (Rimini), Italy</p>	<p>http://www.inf.infn.it/conference/channeling2020/</p>



	(postponed)		meetings have been extended to include also the interaction of radiations and beams (wide broad electromagnetic radiations, atoms and neutrons) in various structured media as well as meta-materials to be investigated at the channeling physics approach. One of the main application of the physics of beams channeling relates to the future accelerators, storage rings and radiation optics projects, and it is known as charged and neutral beams novel manipulation techniques, i.e. shaping - collimation and deflection, and acceleration. Recent studies have shown the feasibility of the channeling phenomenology application for description of other mechanisms of interaction of both charged and neutral particle beams in solids, plasmas and external electromagnetic fields covering the research areas from crystal and capillary based accelerators, undulators, waveguides, and X-ray/neutron optical elements.		
18	IIS2020 — 11TH ITER INTERNATIONAL SCHOOL: THE IMPACT AND CONSEQUENCES OF ENERGETIC PARTICLES ON FUSION PLASMAS (postponed)	Aix-Marseille University in Aix-en- Provence at the Institut de Management Public Et Gouvernance Territoriale (IMPGT)	The subject of this year’s school is “The Impact and Consequences of Energetic Particles on Fusion Plasmas”. As the start of ITER operations approaches, it is timely to address the multidisciplinary topic that includes plasma self-heating by fusion-born alpha particles, the influence of energetic particles on stability, diagnosing energetic particle transport and loss, and understanding runaway electrons. The ITER International School aims to prepare young scientists and engineers for working in the field of nuclear fusion and in research applications associated with the ITER Project. The adoption of a “school format” was a consequence of the need to prepare future scientists and engineers on a range of different subjects and to provide them with a wide overview of the interdisciplinary skills required by the ITER project.	New dates will be available	https://www.iter.org/newsline/-/3349



			Related subject(s): Plasma and Gas-discharge Physics, Nuclear Fusion		
19	57-TH CULHAM PLASMA PHYSICS SUMMER SCHOOL (cancelled)	UK Atomic energy authority	The Summer School is intended to give the students an introduction to the fundamentals of plasma physics together with an appreciation of how these are related to applications such as Magnetic Confinement Fusion, Laser Plasma and Inertial Confinement Fusion, Low Temperature Plasma and Astrophysical Plasmas. Specific topics in these fields are also treated in depth. Related subject(s): Plasma and Gas-discharge Physics, Nuclear Fusion	The directors announce the cancellation of the Culham Plasma Physics Summer School for 2020.	https://culhamsummerschool.org.uk/
20	PSI POWER DIFFRACTION SCHOOL	Paul Scherrer Institute	Powder-diffraction methods have demonstrated an ever increasing range of applications in materials science, chemistry, physics, life sciences and engineering. Modern synchrotron-radiation methods not only provide data of exceptional quality, but have allowed researchers to perform previously inaccessible experiments. Along with determining the atomic structure and the relative abundance of crystalline phases in bulk samples, information on disordered materials, microstructural features, defects and their evolution in response to external stimuli over a wide range of timescales is now possible. The school, to be held at the Paul Scherrer Institute in Villigen, Switzerland, will give a broad overview of all the modern possibilities using synchrotron radiation, starting with a general theoretical introduction to the various methods and applications. Related subject(s): Neutron Scattering, X-rays, Synchrotron Radiation and Crystallography	PSI Villigen, Switzerland, 13 Sep 2020 - 18 Sep 2020	https://www.epfl.ch/research/domains/ccmx/courses-and-events/pds2020/
21	Opportunities &		This international workshop will bring together experts	24 - 26 March 2021	https://indico.desy.de/indico



	<p>challenges of cavity-based X-ray free-electron lasers (postponed)</p>	<p>European XFEL</p>	<p>in areas related to the construction of CBXFELs (meaning the accelerator and various X-ray instrumentation areas), scientists with expertise in the development and application of various X-ray techniques, as well as scientists from potential scientific application areas. Besides keynote talks about accelerator and X-ray optical concepts, science case presentations with ample time for discussions will identify potential scientific breakthrough areas for these sources.</p> <p>The objectives of the workshop are: Developing a summary of the various concepts for CBXFELs and related schemes, including projected X-ray radiation performance parameters for the respective schemes. Describing initial concepts for accelerator, X-ray optics and other X-ray instrumentation systems. Identification of the most important performance requirements for each critical subsystems. Selection of promising X-ray techniques and identification of scientific opportunities to enable focused workshops within targeted science communities to develop strong science cases.</p>	<p>Location: European XFEL</p>	<p>/event/25361/</p>
<p>22</p>	<p>The ESA-FAIR Space Radiation School 2020 (postponed)</p>	<p>ESA and FAIR</p>	<p>For many years, ESA has been implementing space radiation research at the GSI particle accelerator in Darmstadt, the only one in Europe able to simulate cosmic radiation. GSI is now building FAIR, a new facility with even higher energy for cosmic ray simulation. Under the recently signed Cooperation Agreement between ESA and GSI-FAIR (ref.: ESA/C(2017)130), the ESA -FAIR Radiation Summer School has been established to train students in basic heavy ion biophysics for both terrestrial and space applications.</p>	<p>The school will be rescheduled in 2021, month and day: (TBA).</p>	<p>https://www.gsi.de/work/forschung/biophysik/esa_summer_school.htm</p>



			<p>The ESA -FAIR Radiation Summer School will contribute to research and development in the field of biomedical and biophysical applications of heavy ions in Europe and will highlight ESA's commitment to stimulate the pursuit of education in the Science, Technology, Engineering and Mathematics (STEM) disciplines as well as to foster interest and generate expertise relevant to Human Spaceflight activities. The school will be unique worldwide and it is expected to attract large attention from the international community.</p> <p>Topics</p> <ul style="list-style-type: none"> Space research activities at ESA Space radiation physics Space radiation biology Applied physics at GSI/FAIR Particle accelerators Particle therapy 		
23	<p>RACIRI Summer School (postponed)</p>	<p>The Röntgen-Ångström Cluster (RÅC), a Swedish-German research collaboration in the fields of materials science and structural biology that aims to strengthen research at synchrotron and neutron radiation sources.</p>	<p>This year's focus theme is: "X-rays and Neutrons for a Sustainable Future - Advanced Materials, Environment, Human Health".</p> <p>RACIRI Summer Schools (www.raciri.org) are based on a German-Swedish-Russian initiative to promote young researchers (PhD students, master/diploma students in the final research phase, and young postdoctoral researchers) in view of the large-scale research infrastructures in the area. The goal is to bring young researchers, predominantly from the three partner countries, closer to leading-edge research & development at the existing and upcoming top research infrastructures, in particular at synchrotron radiation sources, free-electron lasers, and neutron sources.</p>	<p>Varbergs Kusthotell (Sweden), 22 – 29 August 2021</p>	<p>http://www.raciri.org</p>



24	The Karlsruhe International School on Fusion Technologies	Karlsruhe Institute of Technology	The Karlsruhe International School on Fusion Technologies is held since 2007 at KIT Campus Nord (former Forschungszentrum Karlsruhe). It started as 'Fusion Summer School' trying to enlarge the knowledge of international young scientists on the process of nuclear fusion. For the lectures leading scientists from KIT as well as international Partners will present their scientific topics. Additionally there are some insights to the labs and facilities situated at the KIT.	30. September - 08. October 2020 Karlsruhe. Due to the Covid-19 situation, organisers decided to rethink the concept of the Summer School in 2020. They are offering an online version of the School, including virtual tours of KIT laboratories.	http://summerschool.fusion.kit.edu/index.php
25	JESS 2020 - Joint European Summer School on Fuel Cell, Electrolyser, and Battery Technologies	Forschungszentrum Jülich		07 – 11 September 2020 (Week 1 - Introductory Classes) 14 - 18 September 2020 (Week 2 - Advanced Classes) Athens, Greece	https://www.fz-juelich.de/SharedDocs/Termine/IEK/IEK-9/EN/JESS_2020.html;jsessionid=0536DD02DC41855B1524CE763C4145B3
26	International workshop “NICA accelerating complex: problems and solutions – 2020” (cancelled)	JINR, Dubna	information n/a	5 – 12 September 2020. Sozopol, Bulgaria	-
27	20th international scientific Baikal Summer School on Physics of Elementary Particles and Astrophysics	JINR, Dubna	the 20th JINR-ISU Baikal Summer School on Physics of Elementary Particles and Astrophysics, which will take place from July 14 to 21, 2020, in the picturesque village Bol'shie Koty (Big Cats) on the shore of Lake Baikal. We invite master and PhD students as well as early-career PhDs (postdocs) to attend the School. Exceptionally motivated undergraduates are also welcome. The	July 14 to 21, 2020. Venue: Bolshie Koty, Irkutsk Region, Russia	https://indico.jinr.ru/event/1047/

			<p>working language of the school is English.</p> <p>The School offers a unique experience of full scientific immersion "Siberian style":</p> <ul style="list-style-type: none"> - a week of lectures given by invited experts in experimental and theoretical HEP and astroparticle physics, - plenty of time for questions and informal discussions with lecturers, - intensive study sessions in small groups, - an opportunity to present a talk or poster of own work, - friendly atmosphere, new contacts and friends, - finally the stunning views of the lake Baikal and Siberian Taiga. 		
28	<p>9th International Conference “Distributed computing and Grid technologies in science and education” (GRID 2020)</p>	JINR, Dubna		<p>7 – 11 September 2020.</p> <p>Laboratory of Information Technologies, Dubna</p>	<p>http://www.jinr.ru/posts/9-ya-mezhdunarodnaya-konferentsiya-raspredelemnnye-vychisleniya-i-grid-tehnologii-v-nauke-i-obrazovanii/</p>
29	<p>International IT-School “Distributed Computing and Big Data Analytics”</p>	JINR, Dubna	<p>International IT-school “Distributed Computing and Big Data” will be held on 28 September – 02 October in Budva, Montenegro</p> <p>Participants: students finishing third or fourth year of bachelor studies, master students or PhD students.</p> <p>Main topics: Digital Platforms; Distributed and Parallel Computing; Big Data Analytics and Machine Learning; Data Management, Organization and Access.</p> <p>Working Language: English</p>	<p>28 September – 2 October 2020. Budva, Montenegro</p>	<p>https://indico.jinr.ru/event/1125/</p>



			<p>Skills Requirements: Linux skills; Basics of Python, C / C ++;</p> <p>Database Technologies; Basic knowledge of numerical analysis and mathematical methods of data processing</p> <p>The organizers will cover the costs of accommodation, food and air travel (Moscow-Tivat-Moscow).</p> <p>Participants will be accommodated in Montenegro Beach Resort 4 (2 people in double rooms).</p>		
30	<p>The conference "New Particle Physics Trends"</p>	<p>Joint Institute for Nuclear Research, (JINR)</p>	<p>The conference "New Particle Physics Trends" continues the traditions of the previous homonymous conferences. In view of the multidisciplinary nature of the meeting, all speakers are kindly asked to present their results in a comprehensive way, understandable for the audience. Standard projection facilities (viewgraph and beamer/computer) will be available. Free time for discussions and leisure/excursions will be provided</p>	<p>Starts 28 Sept. 2020 r., 09:00</p> <p>Ends 4 Oct. 2020 r., 18:00</p> <p>Europe/Podgorica Montenegro, Budva, Becici</p>	<p>https://indico.jinr.ru/event/1026/</p>
31	<p>The Helmholtz International Summer School "Matter under Extreme Conditions in Heavy-Ion Collisions and Astrophysics"</p>	<p>the Bogoliubov Laboratory of Theoretical Physics, JINR</p>	<p>The Helmholtz International Summer School "Matter under Extreme Conditions in Heavy-Ion Collisions and Astrophysics", organized by the Bogoliubov Laboratory of Theoretical Physics, JINR will be held in Dubna, Russia, from August 16 to 26, 2020.</p> <p>The lectures will be supplemented by evening discussion sessions. Short reports of the students will be encouraged as well.</p> <p>The total number of participants is expected to be about 50. PhD or master students and young postdocs are invited to apply for participation.</p>	<p>Starts 16 Aug. 2020 r., 14:00</p> <p>Ends 26 Aug. 2020 r., 18:00</p> <p>Europe/Moscow International Conference Hall</p>	<p>https://indico.jinr.ru/event/1199/</p>
32	<p>The International</p>	<p>Joint Institute for</p>	<p>Subject Fields: Nuclear and related techniques for</p>	<p>The new dates of our</p>	<p>https://indico.jinr.ru/event/1</p>

	<p>School on Nuclear Methods and Applied Research (postponed to 2021)</p>	<p>Nuclear Research (JINR) & University of Novi Sad</p>	<p>environmental studies, life sciences, materials science and cultural heritage.</p> <p>Subfields: air, water, and soil pollution; technology of water purification; radioecology; radiogenetics; nuclear medicine: radioisotopes and hadron therapy, nuclear detectors in medicine; functional materials; archaeological, cultural and anthropological heritage.</p> <p>Scientific Scope of the School</p> <p>The School is dedicated to the comprehensive study of nuclear methods in a large spectrum of applications. The School will be organized in the form of several courses on the above-mentioned topics. Each course will start with an elementary introduction to the subject and its development up to the present-day status of research in the corresponding field, explaining the possibilities of participating in the related scientific activities in the JINR laboratories and partner institutions of JINR member states and associated members.</p>	<p>International school on Nuclear Methods and Applied Research will become available as soon as the epidemiological situation in the world allows running such events</p>	<p>108/</p>
33	<p>International Conference on Low-dimensional materials: theory, modeling, experiment (LDM2020)</p>	<p>JINR, Dubna</p>	<p>The International conference "Low-dimensional materials: theory, modeling, experiment" will be held in Dubna, Moscow Region, Russia, next year, 2021. The conference will cover the wide range of nanoscale phenomena in low-dimensional materials.</p> <p>Topics:</p> <ul style="list-style-type: none"> 2D materials: graphene and others Nanoribbons and carbon nanotubes Dirac and Weyl metals and semimetals Transport phenomena in LDM LDM-based heterostructures 	<p>New dates: June-July, 2021; Dubna</p>	<p>https://indico.jinr.ru/event/1078/</p>



			LDM functionalization LDM in nano/bio electronic devices		
34	TRAINING COURSE ON VACUUM SYSTEMS DESIGN AND MAINTENANCE (postponed)	Institute of Physics, IoP	Vacuum technology is a key for many research and industries. This IOP Vacuum Group training course is intended to provide a grounding in practical vacuum usage for people who use and have some experience in vacuum. It will be presented by experienced vacuum personnel and will cover the topics listed below, where possible personal experiences will be used to highlight how various technical challenges were overcome. This course will be beneficial for both graduates and vacuum technicians looking to develop their knowledge and technical skills. Related subject(s): Applied Physics (general), Continuing Professional Education, Courses (general)	London, United Kingdom, new dates will be announced later	http://vsdm2020.iopconfs.org/home
35	The RACIRI Summer School “Advanced Materials Design at X-ray and Neutron Facilities”	NRC Kurchatov Institute, Vetenskapsrådet (Swedish Research Council), DESY	The RACIRI Summer School “Advanced Materials Design at X-ray and Neutron Facilities” is a joint initiative by Russia, Sweden and Germany in the collaborative framework of the Röntgen-Angström-Cluster (RAC) and the Ioffe-Röntgen-Institute (IRI). The format of the RACIRI Summer School is driven by scientific frontier themes and challenges in the field of materials sciences with a strong connection to the superb analytical potential at current and future research infrastructures for photons, X-rays and neutrons in the Baltic Sea region (synchrotron-radiation and free-electron-laser facilities as well as research reactors and spallation sources). The RACIRI Summer School is held every year under a special focus theme. Its venue rotates annually among the three partnering countries.	This year RACIRI will be held as 2-day RACIRI-2020 Webinar, due to corona, not as on-site 1-week school.	www.raciri.org



36	<p>Simulation methods of instrument design: McStas-course NIKONS-2020</p>	<p>NRC Kurchatov Institute -PNPI, SPSU</p>	<p>Petersburg Institute of Nuclear Physics (NRC "Kurchatov Institute") organizes the III School "Simulation methods of instrument design: McStas-course" within the walls of St. Petersburg State University supported by the European Commission project grant agreement No. 871072 CREMLINplus.</p> <p>The goal of the school is to familiarize young students with neutron scattering techniques used in research in physics and chemistry of the condensed matter, as well as biology and materials science. The audience of the school is undergraduate students (3-4 courses), graduate students of natural sciences, graduate students and young specialists who are already conducting experimental research in the field of condensed matter, but are not yet familiar with the methods of neutron scattering. Students of the departments of the Faculty of Physics of St. Petersburg State University (FTT, ETT, molecular biophysics and polymer physics) are invited to participate in the school, as well as everyone who are interested in neutron scattering. Condensed Matter Department of the Petersburg Nuclear Physics Institute (NRC "Kurchatov Institute") plans to use the NIKONS-2020 School as a training course and broadening the horizons of young employees involved in the construction of neutron stations at the PIK reactor.</p>	<p>17 – 21 September 2020, Peterhof, St-Petersburg, Russia</p>	<p>https://oiks.pnpi.spb.ru/events/nicons-2020/</p>
37	<p>PNPI School on Polarized Neutron Physics</p>	<p>NRC Kurchatov Institute -PNPI</p>	<p>The IX School of Polarized Neutron Physics "FPN-2020" is being held on December 10-12, 2020 at the National Research Center "Kurchatov Institute" - PNPI jointly with St. Petersburg State University with the support of the European Commission project grant agreement No.</p>	<p>10-12 December, 2020, Gatchina, Russia</p>	<p>https://oiks.pnpi.spb.ru/events/fpn2020</p>



			<p>871072 CREMLINplus.</p> <p>The School Polarized Neutron Physics is held at PNPI NRC KI annually since 2012 and is associated with the names of Soviet and Russian physicists Prof. Giliari Drabkin and Prof. Sergey Maleev. These two outstanding scientists inspired and originated the condensed matter research at the Institute, specifically with the help of polarized neutrons. They are considered to be the Founding Fathers of the Polarized Neutron School in Gatchina. The trailblazing scientific works of Dr. Drabkin, Dr. Maleev and one more distinguished PNPI scientist Dr. Alexey Okorokov in the field of polarized neutrons laid the groundwork for a wide range of scientific investigations worldwide, as well as for their application at the PIK neutron facility. The created experimental and theoretical advance is inspirational up to the present, combining the efforts of scientists of the Condensed Matter Department and the Solid-state Physics Sector of the Theoretical Physics Division of PNPI NRC KI.</p> <p>The purpose of the school is to promote the activity of the Russian scientific community in the area of polarized neutron research and get young scientists involved into the scientific research.</p>		
38	<p>Workshop on neutron spectroscopy: Spectrina-2020</p>	<p>NRC Kurchatov Institute -PNPI</p>	<p>The fifth workshop on inelastic neutron scattering "SPECTRINA - 2020", like all the previous ones, is traditionally devoted to topical studies of matter dynamics using neutron scattering. Considerable attention will also be paid to the instrumentation and development of various methods of inelastic neutron scattering.</p> <p>Scope:</p>	<p>09-13 November, 2020, Gatchina, Russia</p>	<p>https://oiks.pnpi.spb.ru/events/spektrina-2020</p>



			<p>Condensed matter research by inelastic neutron scattering methods; Triple-axis neutron spectrometry; Time-of-flight neutron spectrometry; Spin echo spectrometry; Development of instruments and technology in modern neutron spectroscopy; Joint use of neutrons and synchrotron radiation to study the dynamics of excitations.</p>		
39	<p>International Conference "Condensed Matter Research at the IBR-2"</p>	JINR, Dubna	<p>After modernization completed in 2011, the IBR high flux pulsed reactor renewed a regular operation and realization of the User Programme. Neutron scattering research at IBR-2 reactor covers different fields of condensed matter physics, materials science, chemistry, biophysical, geophysical and engineering sciences. At present, 200 experiments per year are performed by scientists from more than 20 countries at IBR-2 instruments in the framework of the User Programme. The aim of the Conference on Condensed Matter Research at IBR-2 reactor, playing the role of the User Meeting, is to bring together the users of the neutron facility for discussion of recent experimental results, prospects of future research and development of IBR-2 instruments.</p>	<p>International Conference "Condensed Matter Research at the IBR-2" will be held ONLINE (12 Oct 2020, 09:00 - 16 Oct 2020, 18:00)</p>	<p>http://cmr-ibr.jinr.ru</p>



Annex 6. List of training courses on general managerial issues of research infrastructures

No	Name of the event	Organiser	Abstract	Venue, date/dates	Website
1	The open e-IRG workshop	e-IRGSP6 PROJECT	N/A	planned around 24-26 November or 1-3 December 2020	http://e-irg.eu/germany-2020
2	2020 SARIMA VIRTUAL CONFERENCE From Support to Strategy to Impact - Broadening the Scope of Research and Innovation Management	EUROPEAN ASSOCIATION OF RESEARCH MANAGERS AND ADMINISTRATORS	The SARIMA committee has decided to conduct this year's SARIMA conference as a virtual conference, for the first time.	4-6 August, 2020	https://conference.eventsaire.com/QuickEventWebsitePortal/2020-sarima-conference/sarima-2020
3	The EARMA Digital Conference (virtual)	The European Association of Research Managers and Administrators EARMA	The European Association of Research Managers and Administrators (EARMA) will be hosting a very special EARMA Digital Conference online in October 2020. This four-day event will bring the most relevant discussion in research management and administration globally. Featuring a variety of guest speakers and experts, this online gathering will look at the hot topics in our field and organisers want attendees to participate as much as they can throughout. This event will provide an interactive space for you to share your insights so that to grow together as one EARMA community. For each session, there will be short presentations with experts, followed by panel discussions with key stakeholders sharing their thoughts on the topic of the day.	1,2,5,6 October 2020	https://www.earma.org/digitalconference/
4	EARMA workshop	EARMA	The EARMA Conference, due to take place in Oslo	29 Sept- 01 Oct 2020	https://www.earmaconf



	(pre-conference): How to support the planning, mapping and communication of impacts.		during April 2020 and postponed to September 2020, will now be transformed into an online conference. If you were not registered to attend the in-person EARMA Conference but would still like to attend the EARMA Digital Conference, registration for this four-afternoon event will be open during the summer.		conference.com/pre-conference-programme
5	EARMA Early Stage Research Administrators Masterclass, 4th Edition October 2020	EARMA	The course is designed for people who have recently moved into research administration (RA) roles, with 0-4 years' experience. RA roles can be in central support units, in faculties/institutes or within specific funded projects. The aim of the course is to empower research administrators to undertake the new role with confidence, to present career pathways and give the participants an appreciation of the full research life-cycle and related service tasks. The course covers research funding, going beyond European Union funding, and it will be delivered and facilitated by experienced research managers and administrators from the EARMA community.	<p>Duration and venue (20-22 Oct. 2020):</p> <p>1.5 days (full day Wednesday 21 Oct., half-day Thursday 22 Oct.) in Brussels.</p> <p>Pre-course networking dinner (20 Oct., Tuesday 19:00-21:00), and 3-course dinner (21 Oct., Wednesday – 19:30-21:30) (both are included).</p> <p>Venue: Crowne Plaza Hotel – Le Palace, Brussels, Belgium</p>	<p>https://www.earma.org/event/earma-early-stage-research-administrators-masterclass-4th-edition-may-2020/</p>
6	EMMRI/OPEN PROGRAMME Module-Governance and Organisation	The University of Milano-Bicocca, UNIMIB	The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge. This format gives you the opportunity to take individual modules to develop specific expertise if	Venue: UNIMIB, Milan; dates and duration are the subject for discussions	https://emmri.unimib.it/home-open-programme/

			<p>the full Executive Master is not required.</p> <p>Governance and organisation</p> <p>Managing different stakeholders and interests</p> <ul style="list-style-type: none"> • Ethical and legal frameworks that influence governance and organisational structures • Organization structure and design • The peculiarities of distributed RIs 		
7	<p>EMMRI/OPEN PROGRAMME</p> <p>Module – Strategic Management of Research Infrastructures</p>	<p>The University of Milano-Bicocca, UNIMIB</p>	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge.</p> <p>This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Strategic management of RIs</p> <p>Understanding the RI environment</p> <ul style="list-style-type: none"> • Strategic thinking and planning for an RI • Defining the mission and the vision • Translating mission and vision into a strategic/development plan • Understanding emerging trends in technology • Accountability to stakeholders • Managing of ethical and social challenges 	<p>Venue: UNIMIB, Milan; dates and duration are the subject for discussions</p>	<p>https://emmri.unimib.it/home-open-programme/</p>
8	<p>EMMRI/OPEN PROGRAMME</p> <p>Module - Financial Management I</p>	<p>The University of Milano-Bicocca, UNIMIB</p>	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge.</p> <p>This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Financial Management I</p>	<p>Venue: UNIMIB, Milan; dates and duration are the subject for discussions</p>	-



			<ul style="list-style-type: none"> • Cash flows, investments, assets and liabilities, costs and revenues • Cash and accrual accounting • The financial statement of RIs • Balancing the budget • Things to consider/check when working with an accounting firm 		
9	<p>EMMRI/OPEN PROGRAMME Module - Developing a Sustainable Funding Model for RIs</p>	<p>The University of Milano-Bicocca, UNIMIB</p>	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge. This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Developing a Sustainable Funding Model for RIs</p> <ul style="list-style-type: none"> • Advocacy and ambassadorship • Modes of funding • Identifying and negotiating with potential funders • New funding tools (private-public partnerships, special projects, commercial funding, fee for service, consultancy) • The evaluation of investment projects 	<p>Venue: UNIMIB, Milan; dates and duration are the subject for discussions</p>	<p>https://emmri.unimib.it/home-open-programme/</p>
10	<p>EMMRI/OPEN PROGRAMME Module - Financial Management II</p>	<p>The University of Milano-Bicocca, UNIMIB</p>	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge. This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Financial Management II</p> <ul style="list-style-type: none"> • Risk management and internal control 	<p>Venue: UNIMIB, Milan; dates and duration are the subject for discussions</p>	<p>https://emmri.unimib.it/home-open-programme/</p>



			<ul style="list-style-type: none"> • Measuring the cost of activities • Pricing of services • Tax rules • Defining and evaluating performance indicators 		
11	EMMRI/OPEN PROGRAMME Module - Service Provision	The University of Milano-Bicocca, UNIMIB	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge. This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Service Provision</p> <ul style="list-style-type: none"> • Operations and process management • Running operations in networked settings • Understanding user needs and customer focus • User engagement • Fostering a culture of service provision • Project management and driving project management skills of staff and researchers 	Venue: UNIMIB, Milan; dates and duration are the subject for discussions	https://emmri.unimib.it/home-open-programme/
12	EMMRI/OPEN PROGRAMME Module - Leadership and team building	The University of Milano-Bicocca, UNIMIB	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge. This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Leadership and team building</p> <ul style="list-style-type: none"> • Managing people in multi-cultural and networked settings • Leading towards an 'ethical organisation' • Reaching consensus 	Venue: UNIMIB, Milan; dates and duration are the subject for discussions	https://emmri.unimib.it/home-open-programme/



			<ul style="list-style-type: none"> • Fostering diversity throughout the organisation • Capacity building for nodes • Professional conduct 		
13	<p>EMMRI/OPEN PROGRAMME Module- Raising awareness</p>	<p>The University of Milano-Bicocca, UNIMIB</p>	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge. This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Raising awareness</p> <ul style="list-style-type: none"> • Target communication to different groups • Identify relevant stakeholders such as: general public (patients, etc.), scientific community, the organisation (employees), policy makers and funding bodies • Choosing the right communication channel to maximise impact • Core elements of a successful branding strategy • Communicating value creation and impact 	<p>Venue: UNIMIB, Milan; dates and duration are the subject for discussions</p>	<p>https://emmri.unimib.it/home-open-programme/</p>
14	<p>EMMRI/OPEN PROGRAMME Module-International Law & Compliance</p>	<p>The University of Milano-Bicocca, UNIMIB</p>	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge. This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>International Law & Compliance</p> <ul style="list-style-type: none"> • Compliance with laws and regulations in different settings • Public procurement • Contract issues in different settings: <ul style="list-style-type: none"> -IP regulations 	<p>Venue: UNIMIB, Milan; dates and duration are the subject for discussions</p>	<p>https://emmri.unimib.it/home-open-programme/</p>



			-Data and material sharing, privacy issues in multiple countries		
15	EMMRI/OPEN PROGRAMME Module - Resource Management	The University of Milano-Bicocca, UNIMIB	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge.</p> <p>This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Infrastructure and resource management</p> <ul style="list-style-type: none"> • Research and administrative data management (Storage of data, archiving, privacy, data sharing) • Compliance with national and international regulations • Best practices and standards • Creating a disaster mitigation and recovery plan 	Venue: UNIMIB, Milan; dates and duration are the subject for discussions	https://emmri.unimib.it/home-open-programme/
16	EMMRI/OPEN PROGRAMME Module - Business development and innovation in the RI context	The University of Milano-Bicocca, UNIMIB	<p>The EMMRI Open Programme is targeted at science professionals and managers of Research Infrastructures that want to improve their managerial skills and knowledge.</p> <p>This format gives you the opportunity to take individual modules to develop specific expertise if the full Executive Master is not required.</p> <p>Business development and innovation in the RI context</p> <ul style="list-style-type: none"> • Business innovation and development • How to translate the strategy into an operational and financial plan (setting a business plan) • Scenario planning and sensitivity analysis 	Venue: UNIMIB, Milan; dates and duration are the subject for discussions	https://emmri.unimib.it/home-open-programme/



17	<p>EOSC hub Week 2020 (this year online)</p>	<p>EOSC-hub & European Commission</p>	<p>Since its launch in January 2018, EOSC-hub has achieved much of what it has set out to do. As this will also be the final flagship event of the project, EOSC-hub Week 2020 will be an opportunity to ensure the lasting legacy of EOSC-hub in piloting the first in-demand services needed for enabling Open Science in Europe.</p> <p>There have been a number of significant developments across the EOSC community since the last EOSC-hub Week in 2019:</p> <ul style="list-style-type: none"> - EOSC Working Groups tackling Architecture, FAIR, Landscape, Rules of Participation and Sustainability have ramped up their activities and produced a number of relevant outputs; - the regional EOSC projects have been launched with new contributions for EOSC; - EOSC Enhance has been funded to maintain and add new functionalities to the EOSC Portal. <p>All these developments, along with EOSC-hub's own activities and results will need to be aligned.</p>	<p>Karlsruhe; May 18, 2020 - May 20, 2020</p>	<p>https://www.eosc-hub.eu/events/eosc-hub-week-2020-karlsruhe</p>
18	<p>EOSC Symposium 2020</p>	<p>EOSC-hub & European Commission</p>	<p>The EOSC Symposium 2020 brings together researchers, data scientists, e-Infrastructures, research infrastructures, EOSC projects, EOSC Working Group members and representatives of the EU27 Member States and associated countries to discuss the final steps towards the establishment of a first version of a fully-fledged European Open Science Cloud.</p> <p>Organised by the EOSC Executive & Governing Boards with the support of the EOSC Secretariat project, the two-day programme will analyse the progress of EOSC after two years from its official launch focusing on the added value of EOSC for the European scientific community.</p> <p>Data-driven use cases, success stories, failures and lessons learnt from the first two years of EOSC; discussions on the strategic research and innovation agenda of the EOSC partnership within the framework of the future Horizon Europe programme, will shape the programme of this event that will be a key milestone towards the launch of the second phase of EOSC.</p> <p>For any information on the event, please contact info@eoscsecretariat.eu.</p>	<p>Berlin, Germany, Monday, October 19, 2020 - 09:00 to Tuesday, October 20, 2020 - 18:00</p>	<p>https://eosc-hub.eu/events/eosc-symposium-2020</p>
19	<p>The International Conference on Research Infrastructures (ICRI)</p>	<p>ICRI 2021 is supported with funding from the European Union and is hosted by the Canada Foundation for Innovation (CFI), in partnership with the Canadian Institutes of Health Research, the Natural Sciences and Engineering Research Council, and the Social Sciences and Humanities Research Council, and with additional support from the National Research Council of Canada.</p>	<p>The International Conference on Research Infrastructures (ICRI) brings together policy experts, facility managers, leading researchers and a variety of other stakeholders to discuss challenges and emerging trends for research infrastructures around the world.</p>	<p>June 2-4, 2021, in Ottawa, Canada,</p>	<p>http://icri2021.ca/</p>

