

3rd Conference



Renewable Energy Sources - Research and Business (RESRB) 2018

Venue

Brussels, Belgium

Date

18-20 June 2018

CALL FOR ABSTRACTS

Invitation

The Conference Chairs, International Scientific Committee and Scientific Advisory Board cordially invite you to communicate your recent research, share your expertise or facilitate your business at RESRB 2018.

Scope

The **Renewable Energy Sources - Research and Business (RESRB) 2018** conference is designed as a platform for reporting, discussing, improving and disseminating recent developments in renewable energy science, technology, business and policy. Participants from various organisations such as universities, institutes, NGOs, associations, industries etc. are invited. It is an international event with ambitions to share leading research expertise and facilitate business development and thus to be one of the most influential renewable energy knowledge transfer channels. The conference is a must for research groups at the cutting edge of renewable energy science, technology, policy and business development. The conference will facilitate synergies between academia and commercial sectors. Delegates from enterprises seeking innovations and expanding to new markets may benefit from sponsoring, exhibiting and networking thus improving their business environment. RESRB 2018 is particularly focused on developed and developing countries applying green growth policies and plays the role in informing policymaking processes. The participation mode can be either in-person or virtual. Digital conference Proceedings will be made available to all participants including abstracts and contact details of all accepted contributions. Submitted full manuscripts will be internally reviewed by RESRB international referees and review outcomes communicated to authors for facilitated publication in leading international journals and edited books.

Themes

The **3rd RESRB 2018** conference focuses on five key renewable energy areas: (1) bioenergy, (2) wind, (3) solar, (4) hydro and their (5) business development.

The special theme for 3rd RESRB 2018 is:

- Sustainable Production and Use of New Energy Carriers from Renewable Sources

Other main themes for 3rd RESRB 2018 are:

- Renewable Energy Harvesting Technologies
- Renewable Energy Economics, Policy and Management
- Renewable Energy Business Development
- Intelligent Distributed Energy Systems and District Integration
- Energy Storage
- Bioenergy

Additional RESRB themes include:

- Solar photovoltaics
- Wind
- Hydro
- Solar thermal
- Concentrated solar power
- Geothermal energy

- Wave, tide and other marine energies
- Biofuels
- Renewable heating and cooling
- Renewables in transport
- Renewables in buildings
- Agricultural and land use issues
- Biomass production
- Agronomy
- Biorefineries
- Renewables in industrial symbiosis
- Energy systems
- Road maps
- Hydrogen and fuel cells
- Power system, power electronics, smart grid
- Technologies involving renewable energy: e.g. food drying, irrigation, desalination
- Software tools
- Environmental impact
- Life cycle assessment
- Decarbonisation and synergies with fossil fuels
- Sustainability
- Standards
- Infrastructure
- Materials
- Resources
- Power system, power electronics, smart grid
- Micro scale renewables
- Power grids, requirements, international connections
- Grid stability, power generation flexibility
- Electric vehicles
- Energy storage
- Renewables in developed, developing and underdeveloped countries
- Business models and strategies
- Planning
- Renewable energy policy
- Renewable energy economics
- Renewable energy business development
- Innovations, intellectual property rights
- Financing, project finance and management
- Accounting
- Venture capital, entrepreneurial finance, corporate finance
- Intellectual property, start-ups, licensing
- Merger and acquisitions, capital markets, outsourcing, consumer behaviour
- Incentives, legislation
- Energy markets
- Risks and risk management
- Costs and revenues
- Legislative and ethical considerations for research, business and policy interactions
- Societal issues, consumer access, social benefits
- Organisations
- Other topics of critical importance for the development of renewable energy science, technology, policy and business

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Francesco Contino - Co-Chair
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Conference founder

Wojciech Budzianowski

Executive organiser

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Patrons

Combustion and Robust Optimization (BURN) Joint Research Group, burn-research.be, Brussels, Belgium



Renewable Energy and Sustainable Development (RESD) Group, Wrocław, Poland

Website

<http://resrb.budzianowski.eu>

Conference structure

The conference structure consists of plenary lectures, keynote lectures, oral lectures, and short communications. In addition, a brainstorming activity and awards for best presenters are envisaged.

Publications

(1) Abstracts in digital Proceedings

All abstracts of conference participants will be published on the peer-reviewed **digital Proceedings**. The maximum length of the abstract is 1 page. Proceedings will be published on-line in open-access with an ISBN number.

Peer-review procedure: (i) a minimum of two independent experts review all submissions, (ii) final abstracts must be approved by two experts and editors.

Editors of Proceedings: Budzianowski W.M., Contino F., Parente A.

(2) Articles in journals

Full articles associated with contributions presented at the RESRB conference will be facilitated for publication in **journals**. Conference internal reviewers will advise authors on how to improve the manuscripts and suggest journals suitable for publication. Editors associated with RESRB will invite selected manuscripts to journals. Authors will make decisions regarding selection of a journal suitable for publication. Final revised articles submitted to journals by the authors will undergo peer-review procedures consistent with journals' standards. Typically, at least two independent journals' reviewers will have to approve the final manuscripts.

In addition some journals will offer special issues or invite/accept regular submissions for selected RESRB full papers. The publication process will be supported by conference editors and reviewers. Journals will include e.g.:

- Journal of Power Technologies (Web of Science indexed, unofficial impact factor 1.1),
- Journal of Renewable Energy Sources - Technology, Business and Policy (new journal associated with RESRB conference topics),
- Energies (impact factor 2.262, Special Issue "Production and Utilization of Biogas", Guest Editor Wojciech Budzianowski; http://www.mdpi.com/journal/energies/special_issues/Production_and_Utilization_of_Biogas),
- Energies (impact factor 2.262, Special Issue, Guest Editor Alessandro Parente);
- Journal of Sustainable Solutions and Innovation Management (new journal associated with SSG conference topics), etc.

Other leading thematic journals will be continuously involved.

Full papers from RESRB 2016 and RESRB 2017 were published in leading journals such as Renewable Energy, Renewable and Sustainable Energy Reviews, Biofuels, Energy Conversion and Management and many others,

(3) Chapters in edited books

Full articles associated with contributions presented at the RESRB conference will be facilitated for publication in **edited books**. Conference reviewers will advise authors on how to improve the manuscripts. Book Editors will invite selected manuscripts. Authors will select an edited book for publication. Peer review procedure for edited books: two independent reviewers must approve

manuscripts. The conference will support the creation of edited books relevant to conference themes.

Acknowledgments

When submitting your full conference paper to journals/edited books please acknowledge the conference presentation as follows:

The work has been presented at the 3rd Renewable Energy Sources - Research and Business (RESRB) conference held on 18-20 June 2018 in Brussels (Belgium).

Oral lecture requirements

Please prepare a presentation for your oral lecture in power point or similar software with additional conversion to pdf. Your oral lecture will take 15 minutes + 5 minutes discussion.

Short communication/virtual short communication requirements

Please prepare your short communication/virtual short communication in a power point or pdf format. You will show your short communication to the audience during the conference short communication session (5 minutes + 3 minutes discussion). The virtual short communication of virtual participants will be presented by a Committee member or by using your video.

Short communication/virtual short communication format:

1 page short communication title page with authors,

0-2 pages CV of the corresponding author with a photograph including his/her research in renewable energy (virtual short communications only), this should clarify your expertise in the researched field, 2-5 pages main research results in the form of figures, photographs, schemes etc. (each item is clearly described by one sentence), if text is essential use very short bullet points,

1 page conclusion in short bullet points.

Please make sure that your virtual short communication is sufficiently comprehensive that it can be presented to the audience by someone who did not participate in your research and that the audience will understand the main points. Use comprehensive figures and short bullet points. Focus on your novel findings. Avoid too much text. Research goals, conclusions and originality must be particularly clear. In conclusions emphasise one key message you wish to communicate to the conference academic and/or business audiences that was formulated based on your research.

Virtual short communication in video format:

Alternatively virtual short communication may be prepared in a video format (5 minutes). The video may simply include your presentation and your comments. The preferred format is mp4 HD. The video will be displayed to the audience during the short communication session.

Send your virtual short communication at least 1 month prior the conference to:

wojciech1@budzianowski.eu

Business participation at RESRB

Business participants may sponsor or exhibit at RESRB and additionally:

- launch novel products and highlight existing ones,
- enhance company sales and educate the market,
- spotlight key executives,
- increase brand awareness and position the organisation in the renewable energy community,
- elevate visibility of the company in focused markets,
- benefit from interaction with a highly qualified scientific community,
- network with experts and form new alliances with national and international clients,
- have access to new knowledge and attract new innovations to the company,
- build business relationships for the future.

For participants seeking academia-business interactions the organisational structure of RESRB will provide relevant opportunities. Start-ups and other knowledge and innovation driven enterprises are particularly welcome at RESRB.

Sponsorship and exhibition

Various forms of sponsorship are available. An exhibition will run alongside the conference sessions. Companies may advertise either physically at the conference or electronically exploiting dedicated solutions. These services are offered on a first-come, first-served basis. To discuss your requirements or to book sponsorship or exhibit space please contact the Organiser at email:

wojciech1@budzianowski.eu; tel.: +48 792781784.

Important dates

Abstract due (extended)	April 30, 2018
Abstract acceptance decision	up to 7 days
Fee payment (extended)	May 10, 2018
Early bird fee payment	February 28, 2018
Digital conference Proceedings available	June 18, 2018
Conference	June 18-20, 2018
Full manuscript due	December 31, 2018
Internal review outcomes sent to authors	February 28, 2019
Final article submission	April 30, 2019

Conference fees

Participation in-person (all days)	€490
Participation in-person (PhD/MSc student) (all days)	€450
Participation in-person (early bird payment by February 28, 2018) (all days)	€450
Participation in-person (PhD/MSc student) (early bird payment by February 28, 2018) (all days)	€410
Participation in-person (1 day)	€350
Participation in-person with presentation and without article	€350
Accompanying person	€300
Virtual participation	€220
Additional submission #2, #3, etc.	€130

For payments in USD and PLN use the following exchange rates 1 EUR = 1.20 USD = 4.18 PLN.

Payment instructions

Please pay the conference fee to:

Bank account:

Wojciech Budzianowski Consulting Services

Alior Bank SA Łopuszańska 38 D 02-232 Warszawa

BIC (SWIFT) - ALBPPL PW

No. (IBAN) PL18249010570000990275291419 (payment in EUR)

No. (IBAN) PL71249010570000990175291419 (USD)

No. (IBAN) PL89249000050000410098926265 (PLN)

Payment costs - use option OUR - all transfer costs paid by the payee.

Please add the statement: Conference fee RESRB, Lastname Firstname.

Please send the payment confirmation to wojciech1@budzianowski.eu

For other payment modes, e.g. in cash - please contact wojciech1@budzianowski.eu

Cancelation policy

If you find it necessary to cancel your participation, exhibition or sponsorship, please email the conference organiser immediately via email: wojciech1@budzianowski.eu. In addition, please send written notice in paper by normal post to the conference organiser address. Cancellation more than 91 days prior to the first open day of the conference - 50% of the total charge as a cancellation fee

provided that written notice in paper is received by the organising committee. Cancellation 91 days or less prior to the first open day of the conference - 100% of the total charge as a cancellation fee.

In-person participation

In-person participation is when an attendee is physically present at the conference. For in-person participants the conference fee includes the following services: (i) peer review of abstracts for Proceedings, (ii) abstract publication on the digital conference Proceedings, (iii) presentation at the conference (the first submission is oral, additional submissions are usually short communications), (iv) internal peer review of full manuscript, (v) social programme, (vi) coffee, drinks, meals etc.

Virtual participation

Virtual participation is when an attendee is unable or unwilling to take part in-person in the conference and his/her short communication is presented to the audience during dedicated sessions. For virtual participants a conference fee includes the following services: (i) peer review of abstracts for Proceedings, (ii) abstract publication on the digital conference Proceedings, (iii) presentation of slides at the conference by conference presenter, (iv) internal peer review of full manuscript. Virtual authors are encouraged to submit video presentations. Virtual participation is specifically designed to facilitate the involvement of participants from developing countries for which renewable energy is important for achieving sustainable economic development and eradicate poverty.

Special fee reduction programme

This conference facilitates participation of researchers from developing countries and/or temporarily without access to institutional funding under a special fee reduction programme. Download details of this programme from the section for Reviewers in the conference website.

Registration

Register online at <http://resrb.budzianowski.eu> or send your registration file to wojciech1@budzianowski.eu. In case any registration detail change, please re-register, so your registration will be updated.

Participant's steps in brief

- 1) Submit your **abstract** to wojciech1@budzianowski.eu (use abstract template from the website)
- 2) Register at RESRB 2018 - either register online at <http://resrb.budzianowski.eu> or send your **registration file** to wojciech1@budzianowski.eu
- 3) Participants requiring **an acceptance letter** or any other confirmations need to request them from wojciech1@budzianowski.eu
- 4) **Pay your fee** indicated during the registration, make sure you meet the deadline for fee payment/early bird fee payment indicated in Important dates in Call for Abstracts
- 5) In-person participants requiring a visa need to contact the organisers for a **visa letter** at wojciech1@budzianowski.eu
- 6) As an in-person participant you will present your **oral lecture** and **short communication(s)** at the conference to the audience according to the Programme
- 7) If you are a virtual participant please submit your **slides or video** to wojciech1@budzianowski.eu (at least one month prior to the conference)
- 8) Submit your **full manuscript** to wojciech1@budzianowski.eu
- 9) Upon receiving internal reviewers' comments **revise** your full manuscript accordingly
- 10) Submit your **revised full manuscript** for publication to suitable journals or edited books

Ethical considerations

This conference is a platform aimed at raising academic quality of science and linking the different types of participants (e.g. research, business and policy) with consideration of ethical standards to the highest possible extent. The conference seeks only original contributions. Internal review

processes for abstracts and full manuscripts aim at fair evaluation of professional quality. The criteria of quality include among others: originality, conciseness, profundity, societal impact, relevance to the conference subject. Conference contributions are judged only on merits without regard to authors' race, gender, seniority, nationality, affiliation or political views. The internal review process is single blind and confidential. All ethical issues regarding any conference contribution such as plagiarism, conflict of interests, errors or violation of intellectual property rights should be immediately reported and such contributions will be excluded from the conference. Please report all important ethical issues directly to wojciech1@budzianowski.eu.

Venue

Université Libre de Bruxelles (ULB), Solbosch Campus, Building K
Avenue F.D. Roosevelt 42, B-1050 Brussels, Belgium

Logistics

The Brussels airport (Zaventem) is well connected with all major European and international airports. From the airport you may reach the venue by train (B-rail to Etterbeek station), city buses (De Lijn, MIVB/STIB +tram, metro), car, bike and taxi.

Accommodation

Accommodation is booked by participants. Hotel booking can be arranged by hotels' websites or services such as HRS.com (<http://www.hrs.com>), Hotels.com (<http://www.hotels.com>) or Booking.com (<http://www.booking.com>). More detailed hotel information (including pricing and contact details) is available on your request. On special request accommodation booking can be arranged by the organiser on behalf of participants (please contact wojciech1@budzianowski.eu for details).

Programme

Monday 18 June 2018	
08.00-09.00	Registration (Hall)
09.00-09.10	Opening session (Room A)
09.10-09.55	Plenary lecture 1 (Room A) Renewable energy perspectives for Europe - from champion to laggard? Rainer Hinrichs-Rahlwes* <small>*speaking author at European Renewable Energies Federation, Brussels, Belgium</small>
09.55-10.20	Coffee break (Hall)
10.20-10.50	Keynote lecture 1 (Room A)
10.20-10.50	Keynote lecture 2 (Room B)
10.20-10.50	Keynote lecture 3 (Room C)
10.50-11.20	Keynote lecture 4 (Room A) Advanced technologies for hydrogen production and separation Wei-Hsin Chen* <small>*speaking author at National Cheng Kung University, Tainan, Taiwan</small>
10.50-11.20	Keynote lecture 5 (Room B) Upgrading biomass pyrolysis vapors to hydrocarbon fuels Kim Magrini*, Mark Jarvis, Jess Olstad, Yves Parent, Steven Deutch, Kristiina Iisa <small>*speaking author at National Renewable Energy Laboratory, Golden, USA</small>
10.50-11.20	Keynote lecture 6 (Room C)
11.20-12.30	Lunch break (Restaurant)
12.30-14.30	Oral lecture session 1 (Room A)
12.30-14.30	Oral lecture session 2 (Room B)
12.30-14.30	Oral lecture session 3 (Room C)
14.30-15.00	Coffee break (Hall)

15.00-17.00	Oral lecture session 4 (Room A)
15.00-17.00	Oral lecture session 5 (Room B)
15.00-17.00	Oral lecture session 6 (Room C)
17.00-17.45	ISC and SAB meeting (Room A)
17.45-18.00	Editorial Board of Journal of Renewable Energy Sources - Technology, Business and Policy meeting (Room A)
Tuesday 19 June 2018	
08.45-09.00	Registration (Hall)
09.00-09.45	Plenary lecture 2 (Room A) Electricity storage: The solutions, challenges and opportunities in Belgium Patrick Hendrick* <small>*speaking author at Université Libre de Bruxelles, Brussels, Belgium</small>
09.45-10.10	Coffee break (Hall)
10.10-10.40	Keynote lecture 7 (Room A) Synthesis gas and hydrogen production from renewable resources through dry and steam reforming of methane with a newly patented catalyst derived from a negative value mining residue spinellized with nickel Mostafa Chamoumi, Nicolas Abatzoglou* <small>*speaking author at Université de Sherbrooke, Sherbrooke, Canada</small>
10.10-10.40	Keynote lecture 8 (Room B) A modular TLP-design for offshore wind turbines Frank Adam*, Daniel Walia, Hauke Hartmann, Paul Schünemann, Uwe Ritschel <small>*speaking author at University of Rostock, Rostock, Germany</small>
10.10-10.40	Keynote lecture 9 (Room C)
10.40-11.10	Keynote lecture 10 (Room A) Enhancement of the efficiency of the biogas process by the separation of during the process formed fatty acids Thorsten Jänisch* <small>*speaking author at Fraunhofer ICT, Pfinztal, Germany</small>
10.40-11.10	Keynote lecture 11 (Room B) Development of new generation CO ₂ capture technologies for sustainable energy systems Maohong Fan* <small>*speaking author at University of Wyoming, Laramie, USA</small>
10.40-11.10	Keynote lecture 12 (Room C)
11.10-12.30	Lunch break (Restaurant)
12.30-14.30	Oral lecture session 7 (Room A) Turning an energy consumer into an energy producer by using own organic waste Ioana Ionel, Mihai R. Wächter, Adrian E. Cioabla, Adriana R. Wächter
12.30-14.30	Oral lecture session 8 (Room B)
12.30-14.30	Oral lecture session 9 (Room C)
14.30-15.00	Coffee break (Hall)
15.00-16.00	Short communication session 1 (Room A)
15.00-16.00	Short communication session 2 (Room B)
15.00-16.00	Short communication session 3 (Room C)
16.00-17.00	Panel discussion: Commercialisation of innovative renewable energy technologies (Room A)
Wednesday 20 June 2018	
08.45-09.00	Registration (Hall)
09.00-09.45	Plenary lecture 3 (Room A)

	Advanced characterization of unconventional biomass fuels for ash related issues Hervé Jeanmart* *speaking author at Université Catholique de Louvain, Louvain-la-Neuve, Belgium
09.45-10.10	Coffee break (Hall)
10.10-10.40	Keynote lecture 13 (Room A) Global solar PV technologies, markets and opportunities Michel Huart* *speaking author at University of Brussels and APERe asbl, Brussels, Belgium
10.10-10.40	Keynote lecture 14 (Room B) Drying characteristics and kinetics of solar drying of stevia leaves Nadia Hidar*, Lamyae Lahnine, Safa Mghazli, Ali Idlimam, Abderrahim Jaouad, Mohamed Bouchdoug, Mostafa Mahrouz* *speaking authors at Cadi Ayyad University, Marrakesh, Morocco
10.10-10.40	Keynote lecture 15 (Room C)
10.40-11.10	Keynote lecture 16 (Room A) Wave energy, importance of control and power capture performance improvements Hakan Yavuz* *speaking author at Çukurova University, Adana, Turkey
10.40-11.10	Keynote lecture 17 (Room B) Bioelectrochemical systems: The new paradigm for energy recovery and chemical production Deepak Pant* *speaking author at Flemish Institute for Technological Research (VITO), Mol, Belgium
10.40-11.10	Keynote lecture 18 (Room C) Opportunities and challenges of renewable energy business in developing countries Wojciech Budzianowski* *speaking author at Wojciech Budzianowski Consulting Services, Wrocław, Poland
11.10-12.30	Lunch break (Restaurant)
12.30-14.00	Oral lecture session 10 (Room A) Active tuning based fuzzy logic control of a heaving wave energy converter in irregular seas Hakan Yavuz, Alper Burgac, Hurrem Akbiyik
12.30-14.00	Oral lecture session 11 (Room B)
12.30-14.00	Oral lecture session 12 (Room C)
14.00-14.30	Coffee break (Hall)
14.30-16.00	Short communication session 4 (Room A)
14.30-16.00	Short communication session 5 (Room B)
14.30-16.00	Short communication session 6 (Room C)
16.00-16.15	Closing session (Room A) - Award ceremony (1) Best conference oral lecture (2) Best conference oral lecture by student (3) Best conference virtual short communication (4) Best conference lecture related to an innovative solution with commercial potential

Conference language

English

Future editions of RESRB conference

Please contact conference founder at wojciech1@budzianowski.eu if you are interested to co-organise the 4th RESRB 2019 conference or the 5th RESRB 2020 conference in your country.

Contact details

The organising committee may be contacted by email: wojciech1@budzianowski.eu or by phone +48 792781784.