



2020-03-02

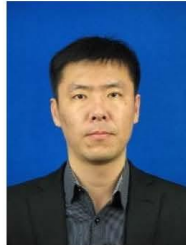
Dear Wolfram, Dear Tara,

Please find attached China's nomination for the IECRE PV SWG Convenor.

Please do not hesitate to contact me if you need further information.

Best wishes

Du chunjing



Curriculum Vitae of Chinese Candidate for
The Convener of IECRE PV SWG

Mr. Wang Shitao, (Bruce) Male

Born on September 1, 1980, in Liaoning Province, P.R.CHINA

Graduated from Harbin Institute of Technology (1999-2003), majored in Electrical Engineering and Automation as Engineering Bachelor Degree.

Post graduated from Harbin Institute of Technology (2011-2016), majored in Mechanical Engineering as Master Degree.

Studied at Harbin Institute of Technology since 2018, majored in Control Science and Engineering, as Engineering Doctoral Degree.

Working Experience:

2003-2007: R&D manager in UTStarcom, responsible for 160G data switch telecom product, carrying out product R&D and team leading.

2007-2014: CTO of Suntrix Company Limited.

1. Responsible for managing the R&D and acting as CTO for the whole company;
2. Participated in strategic planning, making decisions for future development of the company, and financial management;
3. Member of the IEC TC82 WG7, involved in the development of the tracking

and CPV IEC standards.

2014-Present: CTO of Arctech solar, a researcher, and the Co-Convener of the International Electrotechnical Commission (IEC) TC82 WG7.

1. Responsible for managing the R&D and acting as CTO for the whole company;
2. Participated in strategic planning, making decision for future development of the company, and financial management;
3. Co-Convener of IEC TC82 WG7, leading tracking and CPV IEC standards development;
4. Member of IEC TC82 WG3/6, involved in PV BOS and System IEC standards.
5. Member of photovoltaic special committee of China Renewable Energy Society since 2016;

International Experience:

1. Co-Convener of the IEC TC82 WG7 since 2018;
2. Member of IEC TC82 WG7 since 2011;
3. Member of several IEC TC82 work groups, including IEC TC82WG3, WG6;
4. IEC1906 Award and PVSEC 29 Young Scientist Award winner.

List of Some Publications:

1. Development of IEC62108 Standards;
2. Development of IEC62817 Standard;
3. Leading the development IEC63104 Standard;
4. Leading Solar PV tracker standard series;
5. Submitted NWIP for “On-Site Measurement for Electroluminescence of Photovoltaic Arrays”.



2020-01-27

Dear colleagues,

We wish to nominate Thomas Sauer as Member. His CV should be already available.

Kind regards

Gerhard

Dr. Gerhard Imgrund

DKE Deutsche Kommission Elektrotechnik Elektronik Informationstechnik in DIN und VDE

Senior Principal Officer Conformity Assessment

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International Electrotechnical Commission
Mr. Wolfram Zeitz
IECRE Secretary
3 rue de Varembe
CH-1211 Geneva 20

Thomas C. Sauer
Geschäftsführender Gesellschafter

25 March 2020

Motivation letter to become SWG-Convener for PV at IECRE

Dear Wolfram:

Following the nomination of DE MB I am forwarding my letter of motivation for my candidacy for the vacant position of the Sector Workgroup Convener Photovoltaics ("SWG.PV") at IECRE:

The number of photovoltaic installations worldwide has increased exponentially over the last 20 years. The PV market has evolved from one of small scale applications to a mainstream electricity source with a trend towards increasingly utility-scale PV systems, with investments totaling tens to hundreds of millions of dollars for each large-scale project. While having experienced this incredible dynamic growth over the last 20 years, the solar sector currently represents only approx. 2% of worldwide annual electricity production. To push the energy transition to the next level, joint efforts need to enable the entire PV sector to push the electricity share generated by PV power plants towards 20% and beyond. At least evenly important, it is of the essence to enhance the profitability for all stakeholders in the PV sector.

Results from actual PV-park performance:

As part of the project PVScan, EXXERGY has analyzed more than 3,600 insurance claim cases involving PV power plants. While 44% of the claim cases involve damages of less than 100 EUR per kWp, the percentage of cases with damages between 100 and 500 EUR/kWp represent 29% of claim cases, and 3% of the cases resulted in damage amounts of more than 500 EUR/kWp. The balance to 100% are claim cases that have resulted in no pay-out. 32% of insurance claim cases have been due to internal defects including overvoltage without lightning strikes. These findings are alarming, and they are confirmed by observations and analyses of other reputable market participants, including government and non-government organizations. The alarming deterioration relates not only to module and inverters performance but hint as well towards major issues happening on balance-of-systems components (largely associated with support structures and electric connectors) and bad system design, construction, and O&M practices.

Current status in risk mitigation:

To mitigate risks, as part of an overall project due diligence, the financial sector currently reviews technical assessment reports. However, depending on the assessor, these technical assessment reports vary significantly in terms of thoroughness, accurateness, completeness, reliability, validity, transparency etc. so that the actual investment decision turns out to contain a large number of imponderabilities. As long as no international standards are established, the diversity of technical assessment reports results in a high workload on the receiving side, and more importantly, in uncertainties evaluating the true risk exposure of such a PV power plant project.

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Another challenge resides with the aspect of ensuring adherence to such standards to effectively improve quality in the field.

Candidacy:

Internationally accepted standards and certification procedures alongside with training and qualification are important measures to counter inefficiencies and thus, to drive the further deployment of PV forward. The IECRE approach to a global certification (and in addition, rating) system is an essential move towards making the PV sector more reliable and sustainable for the future growth.

As we have analyzed over the course of 2019, the market does not adopt or accept the current IECRE value proposition as evidenced by the low number of certificates issued to date. As a consequence, by mid 2020, the PV-OMC (in future PV-SWG) has lost about half of its CBs and IBs. To put it straight, the PV activity of IECRE is at the verge of failing completely. At the same time, the assumption of creating a major business within 5 years from establishing IECRE may have been over-optimistic in the first place, regardless of how well a value proposition would fit market needs.

A plan on how to improve the situation has been brought forward by WG004 in the REMC meeting in Feldkirch in November 2019. The REMC decisions reflecting on the proposed plan did, however, create a challenging environment towards making the necessary changes happen. Part of the reason for the challenge is that the few remaining active participants in the PV part of the IECRE scheme represent small organizations, and therefore, have limited financial strength to support the workload ahead on a pure voluntary “pro bono” basis. Another part of the challenge is that the window of opportunity to turn the situation is relatively short, possibly significantly shorter than most of the participants in the IECRE system may anticipate.

Be it as it may, I am convinced that IECRE provides the only recognized international platform that can create an international standard for conformity assessment for the renewable energy sector. As known by the IECRE community, I have been fighting over the last few years already very hard to support the IECRE system, and I am committed to turn the currently adverse situation around. At the same time, to enable me performing the turn-around effectively, I will need a firm commitment as well from IEC and IECRE to support me in this endeavor. I know that there is a lot of support for what I am trying to accomplish already. I suggest, however, to discuss an additional level of support.

Future status as WG004 Convenor

Finally, I would like to point out that if I were voted in for the position of the PV SWG Convenor by the REMC, I would certainly be prepared to either continue my current position as Convenor of WG004 or, if the REMC wishes, I would be prepared to make way for another individual from within the system to be voted in for the position of WG004 Convenor.

Sincerely yours,

Thomas C. Sauer

Attachment: Curriculum Vitae

CURRICULUM VITAE Thomas C. Sauer



Strategy and market oriented
Top Manager with international Experience
Know-How in following Industries:
Renewable energy, specialty chemicals / materials,
technical textiles, aerospace (LTA, GA), glass,
aluminum, energy, industrial gases

Professional experience

<p>Since 01/2009 and 01/2007 – 12/2007</p> <p>+ since 2019:</p>	<p>EXXERGY GmbH Frankfurt, Germany</p>	<p>Worldwide acting consulting firm for renewable energy sector President & CEO, sole owner Consulting projects, Consulting volume in excess of 6 M EUR (German) DKE delegate at IECRE for standardization of PV power plants Supporting Member of SunSpec Alliance, Orange Button Initiative of the US Department of Energy</p> <ul style="list-style-type: none"> • Managing Director of TEXXECURE Rating Foundation gGmbH • Chairman of the Technical Advisory Committee for IECRE at the German Commission for Electrotechnology, Electronics and Information Technology (Vorsitzender TBKON.CMC.IECRE @ DKE) • IECRE convener workgroup WG 004
<p>01/2008 – 12/2008</p>	<p>IBC Solar AG Bad Staffelstein, Germany</p>	<p>World leader in Photovoltaic System Integration Sales Turnover 2008: approx. 760 M EUR (approx. 1.1 B USD) (2007: approx. 565 Mio. EUR), approx. 250 employees</p> <p>Management board member - CEO Areas of responsibility: Purchasing, logistics, technical departments, product management, projects, quality assurance, international business, special tasks <u>Increase in turnover</u> by min. 42%, <u>bottom line result increased</u> by 62%, cash flow improved and liquidity requirement reduced leading to more than 50% cash increase Introduction of „<u>total quality management</u>“ (Phase I), incl. process management, quality assurance, logistics optimization <u>Restructuring of supplier portfolio</u> by <u>qualification</u> and <u>closing of long term contracts</u> with existing and new reliable suppliers <u>Consequent execution of measures</u> in international subsidiaries to <u>turn around</u> unfavourable deviations in turnover and bottom-line result Leading the management team to first formulation of a <u>strategic direction</u> in the context of vision and mission statements Target formulation <u>expand project business and foster global presence</u> Repositioning of <u>value and leadership guideline</u></p>
<p>2001 - 2006</p> <p>2001 - 2004</p>	<p>SCHOTT AG (until May 2004: Schott Glas) Mainz, Germany</p>	<p>World leading specialty glass manufacturer Consolidated group sales turnover 2005: approx. 2 B EUR Positions:</p> <p>Vice President Corporate Strategy and Development Reporting to the spokesman of the management board Budget responsibility 2 M EUR p. a. (as of 2003: 7 M EUR) Supported turnover responsibility 2 B EUR p. a. 10 direct reports (as of 2003: 35)</p> <p><u>Arrangement of and agreement on overall corporate strategy</u> in close cooperation with the department heads of Value Controlling and Research and Development, focusing on the aspects of technology, financials and market, and portfolio restructuring</p>

Lectures and Publications (including patent applications)

- June 1994 68. Glastechnische Tagung in Bad Salzdetfurth:
 Neueste Ergebnisse beim Einsatz von Oxy-Fuel Technologie in Glasschmelzöfen
 (Latest Results applying Oxy-Fuel Technology in Glass Melting Furnaces)
 (published in der October 1994 edition of Glass Science and Technology)
- March 1995 Hüttentechnische Vereinigung der Glasindustrie (HVG), Fachausschußsitzung VI,
 Würzburg:
 Technologien der Sauerstoffherzeugung und -versorgung für die Oxy-Fuel-Beheizung
 von Glasschmelzöfen
 (Technologies of Oxygen Production and Supply for Oxy-Fuel Glass Melting Furnaces)
- May 1995 Zwieseler Fachschulkolloquium 1995:
 Sauerstoff-Verbrennungstechnologie für die Glasindustrie
 (Oxygen Firing Technologies for the Glass Industry)
- November 1995 HVG Fachausschußsitzung II & VI, Würzburg:
 Ofenraumauslegung von Oxy-Fuel beheizten Glasschmelzwannen mit Hilfe eines
 dreidimensionalen Berechnungsprogramms für Verbrennungsprozesse und für NaOH-
 Konzentrationen
 (Combustion Space Design of Oxy-Fuel fired Glass Melting Furnaces using a three-dimensional
 calculation program for Combustion Processes and NaOH-Concentrations)
- May 1996 Zwieseler Fachschulkolloquium 1996:
 Ofenraummodellierung für Oxy-Fuel befeuerte Glasschmelzwannen
 (Furnace Modelling for Oxy-Fuel fired Glass Melting Furnaces)
- June 1996 70. Glastechnische Tagung in Cottbus:
 Konzeptionierung von Oxy-Fuel beheizten Glasschmelzöfen (Postervortrag)
 (Concepts for Oxy-Fuel fired Glass Melting Furnaces)
- October 1996 Konferenz der Gaz de France anlässlich der Glastec 1996 in Düsseldorf:
 Application de la modélisation à la conversion des fours 100% oxygène
 (published January 1997 in « L'Industrie Céramique & Verrière »,
 in Februar 1997 in « Verre » with the title "Modélisation 3D de la combustion du 100%
 oxygène-combustible dans les fours de verre")
- January 1997 Glass (Monthly Journal of the European Glass Industry):
 Gases for the Float Line
- May 1997 Zwieseler Fachschulkolloquium 1997:
 Konzeption und Betriebserfahrungen einer mit 100%-Oxy-Fuel-Technologie
 betriebenen Hohlglaschmelzwanne mit Abgasenergieverwertung
 Concept and Operational Experience with a 100% Oxy-Fuel-Technology operated Container
 Glass Furnaces with Waste Gas Energy Recuperation
- May 1997 Glassman Europe '97 in Lyon:
 "Developments in the integration of energy recovery in 100% oxy-fuel melting"
 (published in August 1997 in Glass with the title "Energy Recovery in 100% Oxy-Fuel Melting")

- September 1997 VIK-Workshop in der Glasindustrie, Hessisch Oldendorf:
Technologien der Sauerstoffherzeugung und -versorgung für die Oxy-Fuel-Beheizung von Glasschmelzöfen
(Technologies of Oxygen Generation and Supply for Oxy-Fuel Glass Melting Furnaces)
- September 1997 Konferencja Techniczna organizowana z okazji 100-lecia istnienia Czeszochowskiej Huty Szkła S.A. (Technische Konferenz anlässlich des 100. Geburtstags der Glashütte Czeszochowa Huta Szkła S.A.), Poraj bei Czeszochowa, Poland:
Oxygen Supply Technology & Energy Recovery in 100% Oxy-Fuel Melting
- Juli 1999 //
January 2001 Patent Application DE 199 34 015 A1 // PCT WO 01/05653 A1 about a process to fill, regenerate, and evacuate large scale vessels, in particular dirigibles
(Patent approval: EP 1206381: 25.02.2004)
- January 2001 //
July 2002 Patent Application DE 101 02 699 A1 // PCT WO 02/057682 A3 about a process to fill, regenerate, and evacuate large scale vessels, in particular Lighter-then-Air Flight Devices (Patent application was not pursued after the above patent has been granted)
- November 2001 RWTH Aachen Management/Business Planning for Chinese Executives
"Strategizing at Schott Glas"
- November 2003 Chinese Executive Forum at RWTH Aachen (Technical University, Institute WZL)
"From Vision to Reality – the Schott Odyssey"
(about Innovation Management)
- September 2004 Baden-Badener Unternehmernessprache (Co-Autor)
„Innovation – ein elementarer Bestandteil von Vision und Strategie“
(„Innovation – an elementary component of vision and strategy“)
- September 2005 Taiwanese Executive Course at RWTH Aachen (Technical University, Institute WZL)
„Strategizing at Schott AG“
- March 2008 Washington International Renewable Conference (WIREC):
- Presentation at Panel Discussion
"Solar PV: Global Markets & Policy Drivers Yesterday – Today – Tomorrow"
- Presentation "Renewables are Good Business"
Side Event from dena (Deutsche Energie Agentur)
- April 2008 Ceremony speech at Trina Solar's 10th anniversary and grand opening of the Changzhou Trina Solar PV Industrial Park (CTPIP, English and Chinese)
Changzhou, Jiangsu Province, China
- February 2009 RETECH 2009, Las Vegas, NV:
- Presentation and Panel Discussion:
"Markets and Systems – A European Perspective on the Global PV Market"
- July 2009 Lovells/EXXERGY-Workshop, Frankfurt am Main, Germany
"Der Photovoltaikmarkt im Kontext der Marktkräfte und –entwicklungen oder La Fiesta ha terminado"
(„The photovoltaic market in the context of market forces and developments – or – the fiesta is over“)

March 2010	Lovells/EXXERGY – Workshop, Frankfurt am Main, Germany “Solarbranche im Wachstum – Herausforderungen und Ansätze zur Meisterung des ständigen Wandels im Unternehmen“
April 2010	Hannover Messe / German Chamber of Commerce “China: The next Greentech Factory of the World? - The Solar Sector“
July 2010	HDI-Gerling 1. Münchener Branchen-Forum „Erneuerbare Energien“ „Branchenausblick Photovoltaik“
August 2010	2 nd Sino-EU International Solar PV Industrial Development Forum, Shanghai “The growing PV sector: Market situation and outlook Approaches to master the constant challenge” “不断增长的光伏行业: 市场现状和前景掌控不断挑战的方法 “
September 2010	Hogan-Lovells/EXXERGY – Workshop, Frankfurt am Main, Germany “Solarbranche – Quo Vadis? Szenarien im Angesicht des Wandels der Förderlandschaften“
November 2010	Technical University Berlin - RENAC „Solar Sector – Quo Vadis? - The PV Market: Review – Mechanisms– Outlook“
December 2010	Tianwei Global Customer Conference, Chengdu, China “Solar Sector – Quo Vadis? – The PV Market: Review – Mechanisms – Outlook“
March 2011	Hogan Lovells/EXXERGY – Workshop, Frankfurt am Main, Germany “The Solar Sector under Consolidation Pressure - Threats and Challenges in Restructuring Situations“
April 2011	HDI-Gerling 2. Münchener Branchen-Forum „Erneuerbare Energien“ “Internationaler Branchenausblick Photovoltaik: Die Solarbranche im Konsolidierungsdruck” („International sector outlook – the solar sector under consolidation pressure“)
September 2011	Hogan Lovells/EXXERGY – Workshop, Frankfurt am Main, Germany “Update on the Solar Sector - Focus: Quality- und Supply-Chain-Management“
November 2011	Technical University Berlin - RENAC „The Solar Sector: Challenging Times on the Way to Grid Parity” (+ November 2012, + November 2013 in updated versions)
November 2011	PVSEC-21, Fukuoka, Japan, 28.11.2011 – 02.12.2011 “The Worldwide PV Market - Review, Current Status, and Challenges Ahead”
March 2012	Hogan Lovells/EXXERGY – Workshop, Frankfurt am Main, Germany “How to go forward? - Outlook on the Future Market Development and Strategic Implications“
March 2012	HDI-Gerling 3. Münchener Branchen-Forum „Erneuerbare Energien“ “Internationaler Branchenausblick Photovoltaik: Ansätze für den Weg aus der Krise” („International sector outlook photovoltaic – Concepts to escape the crisis“)
September 2012	Hogan Lovells/EXXERGY – Workshop, Frankfurt am Main, Germany “ PV Market – Quo Vadis: New Business Models in Rough Times“
September 2012	AGRION Workshop, Frankfurt, Germany “The Solar Sector in Times of Crisis”

October 2012	Solarpraxis Conference, Shanghai, China "Requirements, Considerations, and Solutions for successful PV Project Financing and Returns"
November 2012	13. Forum Solarpraxis, Berlin, Germany "PV Power Plants: Risk assessment and the role of insurance coverage"
April 2013	OTTI Seminar at TÜV Rheinland "Neue Konzepte zur Qualitätssicherung und zu Versicherungslösungen als Schlüssel für die Projektfinanzierung der Zukunft"
May 2013	Fifth Annual Business of Clean Energy in Alaska Conference „The World Around Us: International Clean Energy Markets“
October 2013	PVSEC, Paris, France „New Concepts of Quality Assurance and for Insurance Solutions as Essential Keys for Future PV Project Financing“
November 2013	14. Forum Solarpraxis, Berlin, Germany "Financing of PV Parks: Status of risk mitigation and the role of insurance solutions"
March 2014	Huawei customer conference, Ge'Er'Mu, Qinghai Province, P. R. China "European photovoltaic power plant construction, operation, and maintenance experience"
April 2014	Jones Day / EXXERGY Workshop, Frankfurt, Germany "Overview regarding the development and the challenges in selected regions of MENA"
September 2014	BMWi/AHK German Export Initiative Conference, Dammam, Saudi Arabia "Photovoltaics: New Concepts for Quality Management and for Insurability as a Key for Future Project Financing"
October 2014	BMWi/AHK German Export Initiative Conference, Muscat, Oman "Photovoltaics: Considerations, requirements, and applications for off-grid energy supply"
December 2014	BMWi/AHK German Export Initiative Conference, Shanghai, China "Energy efficiency and the role of PV"
March 2015	Intersolar, Beijing, China "A New Methodology for Measuring and Optimizing Sheet Resistance in Cell Manufacturing"
April 2015	SNEC, Shanghai, China "A New Methodology for Controlling and Optimizing Sheet Resistance and Average Cell Efficiency in Cell Manufacturing"
May 2015	PVTC (Photovoltaic Technical Conference), Aix-en-Provence, France (1) "A new methodology for controlling and optimizing sheet resistance and average cell efficiency in cell manufacturing" (2) "Reliability of solar materials, components and systems – Context and pre-requisites for bankability"
November 2015	Intersolar, Mumbai, India "New Concepts for Quality Management and Insurability as a Key for Future Project Financing"

April 2016	Photovoltaik Produktionsmittel - VDMA Jahrestagung (VDMA annual conference on photovoltaic capital goods) „Anspruch und Wirklichkeit in der Produktion in China“ („Claim, perception, and reality in Chinese production“)
April 2016	Jones Day / EXXERGY Workshop, Frankfurt, Germany “USA - Developments and challenges in the PV market”
April 2016	Electric Power Conference, New Orleans, USA “New Concepts for Quality Management and Insurability as a Key for Future Project Financing for PV power plants”
May 2016	7 th Egyptian-German Renewables Day, Cairo, Egypt (Patronage of the German Ministry of Economics and Energy) “Quality Assurance in Large-Scale PV Projects”
June 2016	6th CEPEC SHOWCASE CONFERENCE, London, United Kingdom “PV power plants: Risk mitigation factor quality assurance”
June 2016	First SunSpec Alliance Open Member Meeting at Intersolar Europe “Risks and risk mitigation in solar PV power plants”
June 2016	Solar Investment Risk Mitigation Workshop, London, United Kingdom (1) “Current state of the photovoltaic market” (2) “Financial risk mitigation options”
October 2016	IECRE Conference on Standardization, Juno Beach, FL, USA “Quality assurance system proposal”
November 2016	Smart Solar, Conference on Energy Management in UK & ROI, London, UK “Quality rating – a financial risk mitigation measure for PV power plants”
November 2016	PVScan conference, Aachen, Germany “Bankability in the photovoltaic market”
May 2017	JonesDay / EXXERGY Workshop, Tokyo, Japan “Energy Transition in Europe - New Business Models and Chances for Foreign Investors”
June 2017	European Solar Asset Management Forum “Solar investment risk mitigation - Are we all on the same page?”
September 2017	Solar Power International, Las Vegas, NV, USA, NREL side event “PV power plant rating approach for technical and financial risk and performance assessments”
December 2017	IECRE conference, Madrid, Spain “PV power plant rating approach for technical and financial risk and performance assessments”
February 2018	PV-Tech (Co-author for February issue): “Failure assessments of actual PV systems demonstrate the importance of elective quality assurance”

April 2018	JonesDay / EXXERGY Workshop, Frankfurt am Main, Germany "Energiewende – Digitalisierung – Blockchain" ("Energy transition – Digitalization – Blockchain")
May 2018	PV-Tech (Author for May issue): "Perspectives on risk mitigation measures for PV power plants: Insurance and quality assurance"
September 2018	Integrated Photovoltaic Technical Conference (iPVTC), Cassis, France "Solar investment risk mitigation – Are we all on the same page?"
October 2018	Solar & Storage Finance Conference, New York, USA "Yielding returns on solar investments: An area of improvement?"
January 2019	ACI O&M Conference, Amsterdam, The Netherlands "Yielding returns on solar investments: An area of improvement?"
February 2019	TÜV Rheinland PV Module Forum 2019, Cologne, Germany "The Role of Quality Assurance and IECRE Standardization in Investment Risk Mitigation"
February 2019	European Solar & Storage Market Briefing 2019, Düsseldorf, Germany "Energizing RE Market Developments: Technical Advances, Business Strategies & Future Outlook"
February 2019	FDP Assembly Meeting, Frankfurt am Main, Germany "Sustainable Finance – Background and positioning in the political framework"
March 2019	Solar Power Europe Summit, Brussels, Belgium "Quality • Reliability • Sustainability The role of international standards for conformity assessment and rating systems"
April 2019	European Commission Conference on Sustainable Energy in Central Asia, Brussels "Risk mitigation considerations in pursuit of securing and optimizing financial returns for solar investments"
May 2019	AREMA Global Utilities Procurement Energy Management & Efficiency Forum, Amsterdam, The Netherlands: "The role of procurement towards risk mitigation and yielding investment returns"
September 2019	Solar Power International, Salt Lake City, UT, USA: - "Data Interoperability for Risk Management" - "Effective investment risk mitigation and yield optimization: Two sides of the same coin?"
September 2019	Publication in EPJ Photovoltaics 10, 7 (2019): "Solar investment risk mitigation - are we all on the same page?"
Oktober 2019	Solar Asset Management Europe Conference, Frankfurt am Main, Germany "Solar project risk concerns and the impact on bankability"

- November 2019 Forum Neue Energiewelt, Berlin, Germany
„SolarPower Europe O&M-Empfehlungen -
Relevanz für den Lebenszyklus und Auswirkungen auf den Ertrag“
("SolarPower Europe recommendations on operation & maintenance – Relevance for
the life cycle and for the yield" – Session Chairman)
- February 2020 NREL PV Reliability Workshop, Denver, CO, USA
"How to draw a correlation between financial yield improvements, extending system
life, standardization, risk mitigation, and rating"
- March 2020 Reuters Conference on PV and Wind Operations Europe, Munich, Germany
"Time to implement conformity assessment systems and standards"
(Session Chairman)
- March 2020 Eco PV: Photovoltaics towards a sustainable industry, Lyon, France
"The inconvenient truth: How to separate chaff from wheat in the PV ecosystem"