fPET 2024
Program Overview

Time	Session

Tuesday, 17th of September

Time	Session
9:00 - 12:00	Registration
9:00 - 09:45	First Coffee
9:45 - 10:20	Welcome and Practicalities (Room A - hybrid)
10:20 - 11:10	Keynote 1 - Erik Fisher (Room A - hybrid)
11:10 - 11:20	Coffee Break

Time						
11:20 - 12:30	**Session 2A:** Engineering Ethics Education 1 *Chair: Christine Milchram*	**Session 2B:** AI and Health Technology *Chair: Jon Rueda*	**Session 2C:** Futures of Sustainable Engineering 1 *Chair: Augustinus Setyo Wibowo*	**Session 2D:** AI Developments and Challenges 1 *Chair: Emma Cavazzoni*	**Session 2E:** Engineering Knowledge and Understanding 1 *Chair: Marianne van Panhuys*	**Session 2F:** Military Technology Ethics *Chair: Christine Boshuijzen - van Burken*
12:30 - 14:00	Lunch					

Time							
14:00 - 15:45	**Session 3A:** Engineering Knowledge and Understanding 2 *Chair: Giovanni Frigo*	Session 3B: Political and Ethical Issues in AI, Gender, and Health *Chair: Joan Llorca Albareda*	**Session 3C:** Futures of Sustainable Engineering 2 *Chair: Clément Lasselin*	**Session 3D:** AI Developments and Challenges 2 *Chair: Daria Jadreškić*	**Session 3E:** The Role of the Engineer *Chair: Andrea Gammon*	**Session 3F:** Values in the European Union's Transition and Transformation Policies *Chair: Anna Jacyszyn*	**Session 3G EXP. SESSION:** Interdisciplinary Speculations for the Future of Biohybrid Robots *Chair: Session Convenor*
15:45 - 16:15	Coffee Break						

Time						
16:15 - 17:25	**Session 4A:** New Methods in Engineering Education *Chair: Christine Milchram*	**Session 4B:** AI in Sensitive Domains *Chair: Udo Pesch*	**Session 4C:** Futures of Sustainable Engineering 3 *Chair: Ivano Zanzarella*	**Session 4D:** Theoretical Issues in the Philosophy of Engineering and Technology 1 *Chair: Avigail Ferdman*	**Session 4E:** Boundary Objects and Category Theory *Chair: Martin Stacey*	**Session 4F:** Futures, Technological Visions, and Imaginaries 1 *Chair: Mareike Smolka*

Time	Session
17:30 - 18:30	**Session 5:** Poster Session **Location:** ZKM Building **Session 5:** Vernissage of fPET Art Exhibitions **Location:** HfG Ground Floor
18:30 - 21:30	Opening Speeches, ZKM Exhibition, and Reception

Time	Session

Wednesday, 18th of September

Time	Session
08:30 - 12:00	Registration
08:30 - 18:30	Posters and fPET Art Exhibitions (available all day)

Time							
09:00 - 10:10	**Session 6A:** AI Developments and Challenges 3 *Chair: Christine Milchram*	**Session 6B:** Responsible Technology Development *Chair: Camilla Quaresmini*	**Session 6C:** Political Philosophy of Engineering and Technology 1 *Chair: Diane Michelfelder*	**Session 6D:** Theoretical Issues in the Philosophy of Engineering and Technology 2 *Chair: Mark Addis*	**Session 6E:** Global Perspectives on Engineering Education *Chair: Deniz Sarakaya*	**Session 6F:** Futures, Technological Visions, and Imaginaries 2 *Chair: Neelke Doorn*	**Session 6G EXP. SESSION:** Civic-Minded Engineers and Wicked Problems *Chair: Session Convenor*
10:10 - 10:45	Coffee Break						

Time							
10:45 - 12:30	**Session 7A:** Limitations of Technological Progress *Chair: Giovanni Frigo*	**Session 7B:** AI Ethics *Chair: Sebastian Krügel*	**Session 7C:** Political Philosophy of Engineering and Technology 2 *Chair: Irene Niet*	**Session 7D:** Theoretical Issues in the Philosophy of Engineering and Technology 3 *Chair: Rafael Coimbra*	**Session 7E:** Theoretical Perspectives on AI *Chair: Beatrice Bonami*	**Session 7F:** Principles and Practices of Responsible Research and Innovation 1 *Chair: Philipp Neudert*	**Session 7G EXP. SESSION:** Ways to Get Philosophy of Engineering Taken Seriously by Engineers *Chair: Session Convenor*
12:30 - 14:00	Lunch						

Time							
14:00 - 15:45	**Session 8A:** AI and Responsibility *Chair: Giovanni Frigo*	**Session 8B:** Digital Ethics and AI *Chair: Katherine Brichacek*	**Session 8C:** Sustainable Engineering and Technology Assessment *Chair: Joost Mollen*	**Session 8D:** Engineering Design and Innovation 1 *Chair: Muhammad Abubakr*	**Session 8E:** Know How and Tacit Knowledge *Chair: Claudia Eckert*	**Session 8F:** Principles and Practices of Responsible Research and Innovation 2 - Socio-Technical Integration Research *Chair: Max Roßmann*	**Session 8G EXP. SESSION:** Innovating Educational Approaches in Engineering Ethics: Experiencing Space, Power, and Social Relations, and Imagining Responsible (Technological) Futures *Chair: Session Convenor*
15:45 - 16:15	Coffee Break						

Time							
16:15 - 17:25	**Session 9A:** Design and Values *Chair: Christine Milchram*	**Session 9B:** (Ethics of) Autonomous Vehicles *Chair: Nils Neuhaus*	**Session 9C:** Fundamental Questions in Technology Ethics *Chair: Ibo van de Poel*	**Session 9D:** Engineering Design and Innovation 2 *Chair: Carl Mitcham*	**Session 9E:** New Approaches in Engineering Education *Chair: Inga-Maria Eichentopf*	**Session 9F:** Epistemology and Ethics in Design *Chair: Zach Pirtle*	**Session 9G PANEL:** Roundtable Discussion: The Role of Theoretical Foundations of the Philosophy of Technology and Engineering Ethics in Engineering Education *Chair: Session Convenor*

Time	Session
17:40 - 18:30	Keynote 2 - Mieke Boon (Room A - hybrid)
18:30 - 19:00	Break
19:00 - 22:00	Conference Dinner (at ZKM)

Time	Session

Thursday, 19th of September

Time	Session
8:30 - 12:00	Registration
08:30 - 17:30	Posters and fPET Art Exhibitions (available all day)

Time							
9:00 - 10:10	**Session 11A:** Digital Ethics *Chair: Christine Milchram*	**Session 11B:** Deep Fakes *Chair: Page Benton*	**Session 11C:** Experimental Approaches *Chair: Ashley Shew*	**Session 11D:** Theoretical Issues in the Philosophy of Engineering and Technology 4 *Chair: Nico Formanek*	**Session 11E:** Engineering Ethics Education 2 *Chair: Olena Gruba*	**Session 11F:** Values in Technology *Chair: Kaspar Ampe*	**Session 11G EXP. SESSION:** Workshop: Reviewing for Early Career Scholars - A Bridge Towards Scholarly Expertise and Fair Practice *Chair: Session Convenor*
10:10 - 10:45	Coffee Break						

Time							
10:45 - 12:30	**Session 12A:** Justice and Participation *Chair: Christine Milchram*	**Session 12B:** Risk and Trust *Chair: Andrés Santa-María*	**Session 12C PANEL:** Retrofitting: Maintenance and Philosophy of Technology *Chair: Session Convenor*	**Session 12D:** Engineering and Religion *Chair: Colum Finnegan*	**Session 12E:** Engineering Ethics Education 3 *Chair: Sarah Carter*	**Session 12F:** Digitalization and AI *Chair: Tilke Devriese*	**Session 12G PANEL:** The Multiple Languages of Engineering I *Chair: Session Convenor*
12:30 - 14:00	Lunch						

Time							
14:00 - 15:45	**Session 13A:** Engineering Design and Innovation 3 *Chair: Giovanni Frigo*		**Session 13C EXP. SESSION:** Transdisciplinary and Participatory Research and Innovation: Philosophical Questions and Practical Challenges *Chair: Session Convenor*		**Session 13E EXP. SESSION:** Interactive Exploration of Possible Climate Actions With the En-ROADS Simulator *Chair: Session Convenor*	**Session 13F:** Interdisciplinary Studies of Technologies and Infrastructures *Chair: Pieter Vermaas*	**Session 13G PANEL:** The Multiple Languages of Engineering II *Chair: Session Convenor*

Time	Session
15:45 - 16:15	Coffee Break
16:15 - 17:05	Keynote 3 - Astrid Linder (Room A - hybrid)
17:05 - 17:30	Closing Remarks and End of fPET 2024

TRACKS	Engineering and Technology Education	Ethics, Social Philosophy, and Political Philosophy in Engineering and Technology	Philosophy of Engineering and Technology	Epistemology of Engineering and Technology	Interdisciplinary Studies of Engineering and Technology (e.g. TA, RI, VSD, STS, etc.)	Other

fPET 2024
Program Details

Time	Session	Chair	Content	Location
Tuesday, 17th of September				
9:00 - 12:00	Registration			
9:00 - 09:45	**First Coffee**			
9:45 - 10:20	Welcome and Practicalities			Room A (Hybrid)
10:20 - 11:10	Session 1		**Keynote 1: Necessary Conditions for the Duty Plus Respicere: Explicating the Capacity of Engineers to "Take More into Account"** Erik Fisher	Room A (Hybrid)
11:10 - 11:20	**Coffee Break**			
11:20 - 12:30	**Session 2A:** Engineering Ethics Education 1	Christine Milchram	• Sarah Junaid: Entrepreneurship as an Essential Vehicle for Ethical Skills Development (*) • Yuqi Peng: A Rubik's Cube-Inspired Pedagogical Tool for Teaching and Learning Engineering Ethics (*) • Cynthia Pickering, Erik Fisher: Cultural Experience as a Source of Ethical Reasoning in STEM Education (*) • Agostino Cera: De-Metaphorizing Technology: The Question of Human-Technology Relation (*)	Room A (Hybrid)
	Session 2B: AI and Health Technology	Jon Rueda	• Sarah Carter: That's Too Personal: Defining the Limits of Personalization in Mental Health Chatbots • Matthias Uhl, Sebastian Krügel: Distrust in AI-Based Decision Support Systems and Ethical Implications in Medical Decision-Making	Room B
	Session 2C: Futures of Sustainable Engineering 1	Augustinus Setyo Wibowo	• Florian Richter: A Philosophical Note on the History of Technology and Progress • Thomas Siller, Gearold Johnson: Where Does the Future End?	Room C
	Session 2D: AI Developments and Challenges 1	Emma Cavazzoni	• Beyza Nur Guler, Qin Zhu: Navigating Access: The Impact of AI Recruitment Tools on People With Disabilities in the Workplace • Marc Heimann: Bridging Heidegger, Psychoanalysis, and Large Language Models (*) • Wolfgang Eppler, Reinhard Heil: Towards a Pragmatical Grounding of Large Language Models (*)	Room D
	Session 2E: Engineering Knowledge and Understanding 1	Marianne van Panhuys	• Martin Stacey: On the Cartography of Engineering Knowledge • Zachary Pirtle: What Does it Mean to Do Peer Review at a 'System Level?' Exploring Life Cycle Reviews and the Independent Assessment of Complex Systems Engineering Projects	Room E
	Session 2F: Military Technology Ethics	Christine Boshuijzen - van Burken	• Michael Haiden, Florian Richter: Autonomous Weapons: Considering the Rights and Interests of Soldiers • Nathan Wood: Explainable AI in the Military Domain	Room F
12:30 - 14:00	**Lunch**			
14:00 - 15:45	**Session 3A:** Engineering Knowledge and Understanding 2	Giovanni Frigo	• Martin Stacey, Claudia Eckert: Engineering Knowledge and Soft Skills • Yafeng Wang: Criteria of Success for Engineering Accident Investigations: A Question-Centered Account • Michael Poznic, Vivek Kant: Structuring of Information for Human Machine Interaction: Engineering Understanding, Complex Sociotechnical Systems, and Interface Design	Room A (Hybrid)
	Session 3B: Political and Ethical Issues in AI, Gender, and Health	Joan Llorca Albareda	• Ozan Gurcan: Equality and Reprogenetic Autonomy in the Genomic Era • Adam Briggle: Evaluating the Ethics and Politics of Gender Affirming Care for Trans Youth • Zhang Tongkuo: Reflection on the Ethical Issues of Brain Computer Interface from the Perspective of Responsibility Ethics (*)	Room B
	Session 3C: Futures of Sustainable Engineering 2	Clément Lasselin	• Gearold Johnson, Thomas Siller: Utopian Visions: A Critique of Mega City 2070 • Katherine Goodman: The Good of Engineering: From a Current State to a Preferred One • Xue Yu: The Emerging Forms of Human-Machine Relation and Its Philosophical Reconstruction in the Era of Deep Intelligence	Room C
	Session 3D: AI Developments and Challenges 2	Daria Jadreškić	• Johannes Brinz: Neurormophic AI: From Simulating Towards Replicating the Brain • Beatrice Bonami: Social Organic Authenticity and Non-Western Southern Epistemology as a Core Pathway for Future Artificial Intelligence • Arzu Formanek, Robert Miehe, Klaus Erlach, Yannick Baumgarten: Are Biointelligent Systems Intelligent? The Onion Model for Biointelligence (*)	Room D
	Session 3E: The Role of the Engineer	Andrea Gammon	• Klaus Erlach, Thomas Bauernhansl: How to Formulate a Research Question in Applied Engineering Science: A Systematic Approach • Daniel Marom: To Educate Is Not to Engineer - Why It Is Important to Make the Distinction in the Education of Engineers • José Antonio Perez-Escobar, Deniz Sarikaya: Epistemic Butlers and Critical Thinking	Room E
	Session 3F: Values in the European Union's Transition and Transformation Policies	Anna Jacyszyn	• Martijn Wiarda, Tristan de Wildt, Neelke Doorn: Do Missions Change Values of Mission-Oriented Innovation Projects? A Responsible Research and Innovation Perspective • Irene Niet: EU Public Values Governing the Twin Transition Exposed	Room F
	Session 3G EXP. SESSION:	Session Convenor	Interdisciplinary Speculations for the Future of Biohybrid Robots • Rafael Mestre, Ned Barker, Sergey Astakhov, Aníbal M. Astobiza, Maria Guix, Joana Burd, Matt Ryan	Room G
15:45 - 16:15	**Coffee Break**			
	Session 4A: New Methods in Engineering Education	Christine Milchram	• Albrecht Fritzsche, Stan Kranc: Science Fiction in Engineering Education: Learnings From the EELISA Initiative • Inga-Maria Eichentopf, Hans Kasperidus: Education for a Sustainable Future - Bridging Knowledge and Action	Room A (Hybrid)

Time	Session	Chair	Talks	Room
16:15 - 17:25	**Session 4B:** AI in Sensitive Domains	Udo Pesch	• Jon Rueda: Reproductive Autonomy in the Age of Artificial Intelligence • Martina Philippi: How to Address Ethical Problems in a Multi-Perspective Context: Interdisciplinary Challenges of XAI (*)	Room B
	Session 4C: Futures of Sustainable Engineering 3	Ivano Zanzarella	• Augustinus Setyo Wibowo, Johanes Narasetu Widyatmanto: Navigating Through Hydrogen Policymaking by Means of Poiesis • Ted Limbeek: Value-Based Decision-Making in Asset Management of Urban Bridges and Quay Walls (UBQs) (*)	Room C
	Session 4D: Theoretical Issues in the Philosophy of Engineering and Technology 1	Avigail Ferdman	• Rafael Coimbra, Édison Renato: Generative AI, Mixed Reality, and the Simulation Hypothesis	Room D
	Session 4E: Boundary Objects and Category Theory	Martin Stacey	• Matthew Wragg: Constructing Bridges Using Boundary Objects • Claudia Eckert, Mark Addis: Explanatory Frameworks in Complex Change and Resilience System Modelling	Room E
	Session 4F: Futures, Technological Visions, and Imaginaries 1	Mareike Smolka	• Philipp Neudert: The Politics and Poetics of Imagination: Scrutinizing the 'Quality' of Imagination • Maximilian Roßmann: The Different Understandings of Hype: Over-Generalization, Over-Selling, Over-Promising, Over-Resonance, and Over-Shadowing	Room F
17:30 - 18:30	Session 5		**Poster Session**	ZKM Building
			Vernissage of fPET Art Exhibitions	HfG Ground Floor
18:30 - 21:30			**Opening Speeches, ZKM Exhibition, and Reception**	

TRACKS

Philosophy of Engineering and Technology
Ethics, Social Philosophy, and Political Philosophy in Engineering and Technology
Epistemology of Engineering and Technology
Engineering and Technology Education
Interdisciplinary Studies of Engineering and Technology (e.g. TA, RI, VSD, STS, etc.)
Other

(*) These talks last 15 minutes (including Q&A)

Wednesday, 18th of September				
08:30 - 12:00	**Registration**			
08:30- 18:30	**Posters and fPET Art Exhibitions (available all day)**			ZKM Building HfG Ground Floor
09:00 - 10:10	**Session 6A:** AI Developments and Challenges 3	Christine Milchram	• Stefan Rinner: Large Language Models and Linguistic Understanding: A Modal Argument • Hans Voordijk: AI and User Agency in Civil Engineering Practice: A Postphenomenological Approach (*) • Sabine Thuermel: Dancing with Generative AI (*)	Room A (Hybrid)
	Session 6B: Responsible Technology Development	Camilla Quaresmini	• Udo Pesch: The Acceptability of Technological Debates • Yunxuan Miao: The (Re)Formation of Collective Values in Technology Development: Saliences and Agenda Setting	Room B
	Session 6C: Political Philosophy of Engineering and Technology 1	Diane Michelfelder	• Maarten Franssen: How the Philosophy of Technology Can Support the Politics of Technology • Avigail Ferdman: AI, Capacity Deskilling and Public Reason	Room C
	Session 6D: Theoretical Issues in the Philosophy of Engineering and Technology 2	Mark Addis	• Malvina Ongaro, Daniele Chiffi, Lorenza Petrini: A Pragmatist Approach to Causation in Multi-Risk Research • Daria Jadreškić: Inductive Risk Meets Engineering Risk: What Can Quality Control in Engineering Teach Us About Managing Values in Science? Lessons From Studying Technical Reviewing at CERN	Room D
	Session 6E: Global Perspectives on Engineering Education	Deniz Sarakaya	• Emmanuel Caillaud, Océane Salignon: The Integration of Ethics Education in French "Grandes Écoles": An Option or a Necessity? • Qin Zhu, Beyza Nur Guler, Andrea Gammon, Rockwell Clancy, Scott Streiner, Ryan Thorpe: Exploring How First-Year Chinese Engineering Students Perceive Public Welfare Beliefs and Professional Values	Room E
	Session 6F: Futures, Technological Visions, and Imaginaries 2	Neelke Doorn	• Sabine Ammon, Nils Neuhaus: Metaphors as Conceptual Vehicles for Ethical Vision Design: A Case Study on the Role of Metaphors in Research and Development • Lidia Yatluk: How to Make a New Science: Organizational Imaginaries of Decentralized Science	Room F
	Session 6G EXP. SESSION:	Session Convenor	Civic-Minded Engineers and Wicked Problems • Erhardt Graeff, Guru Madhavan	Room G
10:10 - 10:45	**Coffee Break**			
10:45 - 12:30	**Session 7A:** Limitations of Technological Progress	Giovanni Frigo	• Nikita Lin: Aesthetic Engineering of the Virtual: A Case Study of Jeffrey Shaw's Media Artworks Between 1989-1998 • Enrico Piergiacomi: Moral Technology in Francis Bacon: Ancient Atomism and the Sins of Prometheus • Aaron Schultz: The Domination of Distraction	Room A (Hybrid)
	Session 7B: AI Ethics	Sebastian Krügel	• Joan Llorca Albareda: The Ethical Paradox of Automation: The End of Human Work in the Age of AI • Marcell Sebestyén: Moral Mirrors: Lessons for AI Ethics From the Shortcomings of Animal Rights • Heike Felzmann: Designing for Relationship: Ethically Relevant Factors in the Design of Long-Term Relational AI	Room B
	Session 7C: Political Philosophy of Engineering and Technology 2	Irene Niet	• Lena Fiedler: The Ethical Problem of Gendered Robots • Paige Benton: Democratic AI: Justification for a Broad View of Public Reason • Hernán Borisonik: Exploring the Political Philosophy of Cryptocurrencies (*) • Carl Mitcham: Technology Assessment From the Perspective of Political Philosophy (*)	Room C
	Session 7D: Theoretical Issues in the Philosophy of Engineering and Technology 3	Rafael Coimbra	• Natasha Lushetich: Energetic Circuits of Non-Binary Machines • Dilek Yargan, Ludger Jansen, Manfred Drack: A Conceptual Framework to Understand the Unique Position of Biomimetics • Albrecht Fritzsche: Who Revolves? Around Whom? Reading Günther Anders in the Digital Age	Room D
	Session 7E: Theoretical Perspectives on AI	Beatrice Bonami	• Daniele Chiffi, Giacomo Zanotti, Viola Schiaffonati: A Philosophical Insight Into Uncertainty in AI • Deniz Sarikaya, José Antonio Perez-Escobar: Epistemic Diversity in Education and AI Tools: How We Create Better Tools, by Thinking in Terms of Epistemic Virtues (*)	Room E
	Session 7F: Principles and Practices of Responsible Research and Innovation 1	Philipp Neudert	• Karl Dagher, Erik Fisher: Ethics as Trojan Horse • Beatrice Bonami: Principles and Practices of Responsible Research and Innovation Towards Foundational Structures for a Technology Decolonization Methodology in the Global South • Karen Moesker: Responsible Innovation Principles in Large Infrastructure Systems: Expanding the 'Leaving Ajar' Approach for Practice (*)	Room F
	Session 7G EXP. SESSION:	Session Convenor	Ways to Get Philosophy of Engineering Taken Seriously by Engineers • David Goldberg, Katherine Goodman, Zachary Pirtle, Diane Michelfelder, Daniel Marom	Room G
12:30 - 14:00	**Lunch**			
14:00 - 15:45	**Session 8A:** AI and Responsibility	Giovanni Frigo	• Karen Lancaster: Capacity, Consent, and AI • Dane Leigh Gogoshin: Taking Charge of AI • Joan Llorca Albareda: Challenging the Agential Nature of AI Responsibility Problems	Room A (Hybrid)
	Session 8B: Digital Ethics and AI	Katherine Brichacek	• Camilla Quaresmini, Eugenia Villa, Valentina Breschi, Viola Schiaffonati, Mara Tanelli: Modelling Epistemic Injustice in Innovation Diffusion: A Case Study on Electric Mobility • Eugen Pissarskoi: Ethics of Digital Twins of Online Social Networks (*) • Bauke Wielinga: Balancing AI Rigidity and the Need for Exceptions: A Virtue-Theoretical Approach (*)	Room B
	Session 8C: Sustainable Engineering and Technology Assessment	Joost Mollen	• Diane Michelfelder, Sharon Jones: Sustainable Communities and the Challenge of Caring for Future Generations • Elliott Woodhouse: Environmental Ethics and Philosophy of Technology – The Problem of Artificiality and the Acceptability of Geoengineering in Climate Strategy • Elisabeth Does, Anna Rifat Klassen: Moralizations in the Debate About Genetic Engineering in Agriculture	Room C
	Session 8D: Engineering Design and Innovation 1	Muhammad Abubakr	• Alexander Herwix: A Paradigmatic Framework for Responsible Design Science Research • Nico Formanek: Scaling Things Up! The Philosophy of Technology at Scale • Eswaran Subrahmanian, Albrecht Fritzsche: Approaching Design Theory From the Perspective of Indian Jaina Logic	Room D
	Session 8E: Know How and Tacit Knowledge	Claudia Eckert	• Michael Funk, Albrecht Fritzsche: Engineering Digital Sovereignty? – A New Deal on The Tacit Source • Juho Lindholm: The Argumentative Structure of Know How (*)	Room E
	Session 8F: Principles and Practices of Responsible Research and Innovation 2 - Socio-Technical Integration Research	Max Roßmann	• Kasper Ampe, Gert Goeminne: Interdisciplinarity in Action: Reflections From Engaged Research With Chemical Engineers • Gert Goeminne, Kasper Ampe: Unveiling Narratives of Innovation: A Psychoanalytic Take on Engaged STS Research • Lahari Yaddanapudi, Erik Fisher, Julia Hahn: Socio-Technical Integration With Early-Career Researchers in a Large Scale German COVID-19 project	Room F

Time	Session	Convenor	Details	Room
	Session 8G EXP. SESSION:	Session Convenor	Innovating Educational Approaches in Engineering Ethics: Experiencing Space, Power, and Social Relations, and Imagining Responsible (Technological) Futures • Filippo Santoni de Sio, Jordi Viader Guerrero, Aarón Moreno Inglés, Andrea Gammon	Room G
15:45 - 16:15	Coffee Break			
16:15 - 17:25	**Session 9A:** Design and Values	Christine Milchram	• Ordel Brown, Katherine Brichacek, Laura Pigozzi: Operationalizing Empathy in Engineering Design via an Epistemic Tool to Support Equitable Design Outcomes • Anna Melnyk: Design for Value Change as a Climate Action Approach	Room A (Hybrid)
	Session 9B: (Ethics of) Autonomous Vehicles	Nils Neuhaus	• Sebastian Krügel, Matthias Uhl: The Global Perspective on the Risk Ethics of Autonomous Vehicles • Nick Corvino: Randomness as a Solution to the Self-Driving Car Dilemma (*)	Room B
	Session 9C: Fundamental Questions in Technology Ethics	Ibo van de Poel	• Alexander Bagattini, Michael W. Schmidt: Moral Expertise for Emerging Technologies • Jon Rueda: Techno-Moral Progress: Exploring the Technological Mediation of Better Morality	Room C
	Session 9D: Engineering Design and Innovation 2	Carl Mitcham	• Colum Finnegan: Engineering Online Communication Using Mindshaping Theory • Ivano Zanzarella: Mori's Uncanny Valley Historicized. The Epistemological Validity of HRI Quantitative Models on the Test-Bench of the History of Science	Room D
	Session 9E: New Approaches in Engineering Education	Inga-Maria Eichentopf	• David Goldberg: Co-Contraries and Change in Higher Education • Andrés Santa-María: Contemporary Philosophy of Technology and Its Pedagogical Opportunities	Room E
	Session 9F: Epistemology and Ethics in Design	Zach Pirtle	• Sabine Ammon: Ethical Co-Design for Responsible Technology Futures: On the Epistemology and Ethics of Integration in Research and Development • Tilke Devriese: Productive Misunderstanding in Multidisciplinary Design: The Influence of Different Epistemic Backgrounds on Model Comprehension	Room F
	Session 9G PANEL:	Session Convenor	Roundtable Discussion: The Role of Theoretical Foundations of the Philosophy of Technology and Engineering Ethics in Engineering Education • Tom Børsen, Diana Martin, and Gunter Bombaerts	Room G
17:40 - 18:30	Session 10		Keynote 2: Epistemological Responsibility of Engineers Mieke Boon	Room A (Hybrid)
18:30 - 19:00	Break			
19:00 - 22:00	Conference Dinner (at ZKM)			

TRACKS

Philosophy of Engineering and Technology
Ethics, Social Philosophy, and Political Philosophy in Engineering and Technology
Epistemology of Engineering and Technology
Engineering and Technology Education
Interdisciplinary Studies of Engineering and Technology (e.g. TA, RI, VSD, STS, etc.)
Other

(*) These talks last 15 minutes (including Q&A)

Thursday, 19th of September				
8:30 - 12:00	Registration			
08:30-17:30	Posters and fPET Art Exhibitions (available all day)			ZKM Building HfG Ground Floor
9:00 - 10:10	**Session 11A:** Digital Ethics	Christine Milchram	• Yuqi Peng: Unveiling AI-Induced Vulnerabilities: The Case of Deepfake Technology (*) • Yuying Sun: Ethical Considerations in the Construction of Digital Deceased People (*) • Ria Ariani: Mapping Ethical Dynamics in Open Science: Data Sharing Challenges in Indonesian Qualitative Society (*)	Room A (Hybrid)
	Session 11B: Deep Fakes	Page Benton	• Katherine Brichacek: Teaching Effective Altruism in an Age of Deepfakes • Clint Hurshman: Robust Social Goods: On the Value of Informational Privacy	Room B
	Session 11C: Experimental Approaches	Ashley Shew	• Deniza Kera, Eilat Navon: AI Standards as a Form of "Pastoral Power" and Biopower in SAE J3016 • Joost Mollen: Experiments Without Borders: Research Ethics, Real-World Experimentation, and the Identification Problem (*)	Room C
	Session 11D: Theoretical Issues in the Philosophy of Engineering and Technology 4	Nico Formanek	• Emma Cavazzoni: Sharing Data, Sharing Technologies. Data-Technology Communities in Italy.ld • Zehua Yu: Why Does Similarity Works in Engineering? (*)	Room D
	Session 11E: Engineering Ethics Education 2	Olena Gruba	• Giovanni Frigo: The Caring Engineer • Derek Schuurman: Design Norms and Virtues for Engineering and Computer Science Education and Practice	Room E
	Session 11F: Values in Technology	Kaspar Ampe	• Alok Srivastava: Tracing Responsiveness of Design Change to Value Changes in the Twelve Year History of a New Technology/Product - Semaglutide (Ozempic) Biopharmaceuitcals • Pieter Vermaas: Black Boxing Quantum Technologies in a Value-Sensitive-Design Exploration of Security Threats in the Port of Moerdijk	Room F
	Session 11G EXP. SESSION:	Session Convenor	Workshop: Reviewing for Early Career Scholars - A Bridge Towards Scholarly Expertise and Fair Practice • Behnam Taebi, Diana Martin	Room G
10:10 - 10:45	**Coffee Break**			
10:45 - 12:30	**Session 12A:** Justice and Participation	Christine Milchram	• Anna Melnyk, Eugen Popa: The Utopian Search for Energy (In)justice and The Need for Moral Pluralism • Janine Gondolf, Stefanie Enderle, Sophie Kuppler: Contested Engagement: A Conceptual Analysis of "the Stakeholders" in Large Infrastructure Projects • Elisabeth Shrimpton, Nazmiye Balta-Ozkan: Operationalising Justice Into Infrastructure Engineering Research: A Focus on Hydrogen Production Technologies (*) • Joost Alleblas : Rethinking Sufficiency (*)	Room A (Hybrid)
	Session 12B: Risk and Trust	Andrés Santa-María	• Eva Pöll: Engineering the Trust Machine • Ibo van de Poel: Acceptable Risk Under Moral Uncertainty	Room B
	Session 12C PANEL:	Session Convenor	Retrofitting: Maintenance and Philosophy of Technology • Mark Thomas Young: Beyond Winner's Bridge: Retrofitting and the Politics of Artifacts • Andrea Gammon: Retrofitting: A Candidate Practice of Environmental Maintenance and Repair • Ryan Wittingslow: Retrofitting Goodman to Talk About Retrofitting	Room C
	Session 12D: Engineering and Religion	Colum Finnegan	• Muhammad Abubakr: Are Engineered River Basins Sentient? A Perspective From Islamic Philosophy • Daniel Marom: The Contribution of Theology to the Philosophy of Engineering: The Example of the Story of the Tower of Babel	Room D
	Session 12E: Engineering Ethics Education 3	Sarah Carter	• Diana Martin: Teaching Engineering Risk and Uncertainty as Ethical Concepts • Jesse Pappas: Character Ethics Education for a Metamodern World	Room E
	Session 12F: Digitalization and AI	Tilke Devriese	• Mareike Smolka, Bas Boom: Imagining AI in Context: (Re-)Analysis of an Interdisciplinary Student Project • Paula Gürtler, Artur Bogucki, Berta Mizsei: Ethical, Legal, and Socioeconomic Aspects in AI Projects (*) • Matthias Razum, Anna Jacyszyn, Linda Nierling, Felix Bach: Leibniz ScienceCampus „Digital Transformation of Research" (*) • SaeBom Song, Andreas Lösch: Openness as Smartness?: Sociotechnical Evolution and Imaginaries of Open Data Initiative and Smart City in the Republic of Korea	Room F
	Session 12G PANEL:	Session Convenor	The Multiple Languages of Engineering I • Peter Pelz, Viet-Anh Nguyen Duc, Alfred Nordmann, Aleksandra Kazakova, Dazhou Wang, Andreas Brenneis	Room G
12:30 - 14:00	**Lunch**			
14:00 - 15:45	**Session 13A:** Engineering Design and Innovation 3	Giovanni Frigo	• Clément Lasselin: Engineering Research as a Science: Perspectives From the Philosophy of Science • Ritesh Bansal: Distinguishing Between Nudging and Usability in the Context of Product Designs (*)	Room A (Hybrid)
	Session 13C EXP. SESSION:	Session Convenor	Transdisciplinary and Participatory Research and Innovation: Philosophical Questions and Practical Challenges • Joost Mollen, Elisabeth Does	Room C
	Session 13E EXP. SESSION:	Session Convenor	Interactive Exploration of Possible Climate Actions With the En-ROADS Simulator • Hans Dieter Kasperidus, Inga-Maria Eichentopf	Room E
	Session 13F: Interdisciplinary Studies of Technologies and Infrastructures	Pieter Vermaas	• Arian Mahzouni: The Role of Electric Vehicle Batteries in Shaping Multi-System Interactions in Urban Energy Systems: A Socio-Technical Approach • Manuel Baumann, Marcel Weil, Jens Peters, Hüseyin Ersoy, Merve Erakca, Haruna Bismark: Constructive Technology Assessment to Support Sustainable Battery Development • Miriam Vetter, Sonja Haug, Karsten Weber, Caroline Dotter: Acceptance and Willingness to Use Smart Meter Applications. Results From a German Population Survey (*)	Room F
	Session 13G PANEL:	Session Convenor	The Multiple Languages of Engineering II • Andreas Brenneis, Dazhou Wang, Alexandra Kazakova, Alfred Nordmann, Peter Pelz, Viet-Anh Nguyen Duc	Room G
15:45 - 16:15	**Coffee Break**			

16:15 - 17:05	Session 14	Keynote 3: Inclusive crash safety assessment – past, present, and future Astrid Linder	Room A (Hybrid)
17:05 - 17:30		**Closing, End of fPET**	Room A (Hybrid)

TRACKS

Philosophy of Engineering and Technology
Ethics, Social Philosophy, and Political Philosophy in Engineering and Technology
Epistemology of Engineering and Technology
Engineering and Technology Education
Interdisciplinary Studies of Engineering and Technology (e.g. TA, RI, VSD, STS, etc.)
Other

(*) These talks last 15 minutes (including Q&A)

Poster Session - List of Posters

- Lee-Ryeok Han: *A Two-timed Strategy for State Identification*

- Michael Mayer, Bettina Kamm, Jan Rabold: *Approaches to Increasing Explicit Opportunities for the Acquisition of Professional Ethical Competencies in Higher Education*

- Diana Martin: *Integrative Engineering Education: Exploring the Responsibility of Technological Universities*

- Nick Treanor: *The Epistemic Role of Testing and Certification in the Construction Industry*

- Florian Richter: *From Human-System Interaction to Human-System Co-Action: Ethical Assessment of Generative AI*

- Elisabeth Does: *Ethics in Transdisciplinary Research Formats: Reflection Guidelines for Responsible Research Practice in Real-World Labs*

- Anja Bodenschatz: *Does the Implementation by Autonomous Systems Make Randomization in Ethical Dilemmas More Acceptable?*

- Maximilian Schultz: *And now we're doing such an AI project: On the State of Non-Governmental Organizations' Engagement with Artificial Intelligence - Opening a New Field of Research*

- Johannes Willem Heesbeen: *Design Practice as a Test-Bed for Institutional Logics*

- Oliver Shuey: *What can Post-Phenomenology Tell Us about Engineering Knowledge?*

- Katja Nau, Christoph Steinbach, Harald F. Krug, Dana Kuehnel, Alexis Bazzanella, Matthias Finkbeiner, Jessica S. Hoffmann, Andreas Mattern: *MANTRA - Data on Innovative Materials for Sustainability and Transfer*

- Andreas Lösch, Janine Gondolf, Christian Büscher, Ulrich Ufer: *Transformation Assessment – Observing and (Co)Shaping Sociotechnical Transformations*

- Christine Boshuijzen - van Burken, Deane Baker, Ned Dobos, Milad Ghasri, Erandi Hene Kankanamge, Twan Huybers, Oleksandra Molloy, Jo Plested, Shreyansh Singh: *Understanding Ethical Implications of AI Enabled Decision Support Systems on the Battlefield*

- Anna Jacyszyn: *AI4DiTraRe: How significant and Influential Artificial Intelligence is in the Digital Transformation of Research? A Multilevel Interdisciplinary Approach*

- Johanna Teresa Wallenborn, Maximilian Roßmann: *Myths of Sustainable AI Futures - A Multimodal Metaphor Analysis*