

Teaching future teachers about entrepreneurship: The focus on entrepreneurial competences

Author(s)

Alvarado Valenzuela, JuanFra; Douna, Arjen

Publication date

2023

Document Version

Final published version

Published in

3E Conference Proceedings

License

CC BY

[Link to publication](#)

Citation for published version (APA):

Alvarado Valenzuela, J., & Douna, A. (2023). Teaching future teachers about entrepreneurship: The focus on entrepreneurial competences. In *3E Conference Proceedings: Book of Abstracts 2023* (pp. 49-49).

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please contact the library: <https://www.amsterdamuas.com/library/contact>, or send a letter to: University Library (Library of the University of Amsterdam and Amsterdam University of Applied Sciences), Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

3E CONFERENCE PROCEEDINGS

Book of Abstracts

3E Conference – ECSB Entrepreneurship Education Conference

2023



3E CONFERENCE – ECSB Entrepreneurship Education Conference

© 2023

ECSB European Council for Small Business and Entrepreneurship

SECRETARIAT

c/o University of Turku, School of Economics

Rehtorinpellonkatu 3

20500 Turku

FINLAND

e-mail: info@ecsb.org

internet: www.ecsb.org

ISSN 2411-3298

Preface

Dear colleague,

It is with great pleasure we welcome you to the *3E Conference - ECSB Entrepreneurship Education Conference* 2023. This book presents the abstracts of the 3E Conference held on 10-12th May 2023 in Aarhus, Denmark. The Conference is hosted by local organisers who are: the Research Centre for Innovation and Entrepreneurship, VIA University College Aarhus, the Entrepreneurship Research Group at the Department of Management, and the Centre for Educational Development (CED), Aarhus University (AU), supported by the European Council for Small Business and Entrepreneurship (ECSB).

Just ten years ago, the iCARE group of entrepreneurship education researchers at Aarhus University Business School discussed the idea of hosting a European Entrepreneurship Education conference. Not only did they want to bring together European entrepreneurship educators, but they wanted to provide a conference format that would nurture deep discussion of ideas, methods, and concepts, and inspire educators with innovative ways of teaching entrepreneurship. They brought the idea to ECSB which was more than happy to include the conference under their umbrella and the first 3E conference saw the light of day in May 2013 in Aarhus. Since then, the conference has taken place in Turku, Lüneburg, Leeds, Cork, Enschede, Gothenburg, online, and Dijon. The conference format we have today reflects the initiatives of these pioneers and we return to Aarhus to celebrate the anniversary of the first decade of 3E. The strong research and practitioner network and the continuous rise in the number of delegates attest to the success of this conference format and the strong ties that have been developed throughout the last ten years. The conference takes as its starting point 'the questions we care about', questions to which we do not yet know the answer. Indeed, such questions have always been a significant part of entrepreneurship, and the conference seeks not necessarily to answer these questions, but to arrive at new questions that arise from the original questions.

This year, with its theme *Back to the Future of Entrepreneurship Education*, the conference seeks, once again, to provide an opportunity for researchers and practitioners to share their ground-breaking ideas in a collaborative yet critical setting. With a broad approach to entrepreneurship, this book of abstracts demonstrates how far we have come and what are the important questions that we need to ask for the future. In an ever-increasing, unpredictable world, there will be even more need for people able to solve difficult problems, collaboratively and across disciplines. As entrepreneurship educators, we are aware of the importance of introducing students to entrepreneurship through the research and practices that are presented at this year's conference.

Central themes for this conference focus on mindset and identity, the role of the educator, the dialogue between theory and practice, and the importance of being interdisciplinary to name but a few. However, we see new themes emerging such as the power of eco-systems, the ability to create value, and agency and authenticity. It is great to see how the field is evolving to capture new trends in entrepreneurship education.

On behalf of the organisers, we thank all the presenters, discussants, and session chairs for their important contributions, and wish you an inspiring, exciting, and stimulating 3E Conference.

Conference chairs

Michael Breum Ramsgaard (Co-Director),

(Research Centre for Innovation & Entrepreneurship, VIA University College)

Helle Neergaard (Co-Director)

(Department of Management, Aarhus University)

Conference partners

CARLSBERG FOUNDATION

KITCHEN



**DANSK
ERHVERV**
Danish Chamber of Commerce

Innovation Fund Denmark

**SOCIETY FOR THE
ADVANCEMENT OF
MANAGEMENT
STUDIES**




VisitAarhus



EE **Edward Elgar**
PUBLISHING

Table of contents

PRACTITIONER DEVELOPMENT WORKSHOPS

CARE TO LEARN AND LEARN TO CARE	14
Lise Aaboen and Roger Sørheim	
HOW TO SCALE ENTREPRENEURIAL PEDAGOGY? A CLINIC EXERCISE ON A LARGE-SCALE INITIATIVE IN MEXICO	15
Jaime Aguilar Interiano, Isaac Luactero and Jose Gustavo Calderon De Anda	
MEASURING AND ACTIVATING THE ENTREPRENEURIAL MINDSET IN YOUTH	16
Stephanie Alvarado and Elizabeth Kim	
BENEFITS OF ENTREPRENEURSHIP DIDACTICS IN TEACHING DIGITAL LITERACY AND CREATIVITY.....	17
Maria Høegh Beierholm, Louise Krobak Jensen and Anette Bavnshøj	
BACK TO ENTREPRENEURIAL COMPETENCES TO THE FUTURE OF ENTREPRENEURSHIP EDUCATION.	18
Ester Bernadó, Florian Bratzke and Pronay Szabolcs	
COLLECTIVE DEVELOPMENT IN EEE - THE CASE OF COMPASSIONATE CLIPS	19
Catherine Brentnall and Dave Stanbury	
NURTURING ENTREPRENEURSHIP EDUCATION – TOWARDS A MULTIDISCIPLINARY MODEL USING STAKEHOLDER THEORY	20
Zeineb Djebali, Peter McLuskie and Track Dinning	
SUPPORTING ENTREPRENEURSHIP EDUCATORS TO USE LEGO SERIOUS PLAY (LSP) TO ENABLE REFLECTIVE PRACTICE IN ENTREPRENEURSHIP EDUCATION.....	21
Monika Dukarska, Breda O'Dwyer and Pauric McGowan	
IF ENTREPRENEURSHIP IS THE ANSWER, WHAT IS THE QUESTION? AN INVESTIGATION ON SOME OF THE DILEMMAS.....	22
Frederikke Dybdahl Bilenberg, Hanne Duedahl Nørgaard and Birgitte Woge Nielsen	
COME AND BUILD A PRACTITIONER'S COMMUNITY WITH US!	23
Klaus Greve and Martin Storkholm Nielsen	
BEYOND BUZZWORDS: HOW TO TEACH CRITICAL THINKING ABOUT DISRUPTIVE TECHNOLOGIES	24
Brynn Hadler	
IF VIDEO KILLED THE RADIO STAR, WHAT ABOUT THE LECTURER?	25
Natasha Hashimi and Zoe-Lisa Blackler	
RISKY STORIES – APPLICATION OF STORYTELLING IN RISK MANAGEMENT	26
Ilka Heinze, Jens Hirt and Thomas Henschel	
THE PECULIAR SENSATION OF CREATING VOICE - SCHOLARLY WRITING / INSTITUTIONAL NORMS/EXPECTATIONS	27
David Higgins and Trudie Murray	

EXPERIENCING ENTREPRENEURSHIP EDUCATION IN METAVERSE THROUGH SPATIAL	28
Erwin Huang and Aki Leung	
USING A “LOCAL HERO” STARTUP CASE STUDY: PROMOTING EXISTING LOCAL STARTUP SUPPORT MECHANISMS IN AND AROUND OUR UNIVERSITY	29
Florian Huber, Maria Mair, Hannah Brakelmann and Martin A. Bader	
QUALIFYING VALUE CREATION IN ENTREPRENEURIAL TEACHING AND EDUCATIONAL DEVELOPMENT	30
Jette Seiden Hyldegård and Helle Meibom Færgemann	
PEDAGOGICAL NUDGING OF AN ENTREPRENEURIAL IDENTITY THROUGH DESIGN GAMES	31
Rikke Johannesen and Klaus Greve True	
THE NEXT BIG CHALLENGE FOR EE - ARE EDUCATORS READY TO EMBRACE SUSTAINABLE EE?	32
Breda Kenny, Helen McGuirk and Mukesh, H.V.	
THE EDUCATION OF TEACHERS AND STUDENTS TO BECOME ENTREPRENEURS IN THE CIRCULAR TEXTILE DOMAIN. COMBINING ACTION-BASED LEARNING AND EFFECTUATION AS THE PHILOSOPHY.	33
Ruud G.M. Koopman, Marlies Koers-Stuiver and Lisanne M. Bouten	
HOW TO DESIGN AN EDUCATIONAL PROGRAM FOR FIRST-TIME STARTUP FOUNDERS	34
Andrey Kostyuk	
HOW INCLUSIVE ARE THE ASSESSMENT PRACTICES OF OUR ENTREPRENEURSHIP CURRICULUM?	35
Kiefer Lee and Christine O’Leary	
TEACHING PORTFOLIO’S - SUPPORTING THE CONTINUOUS PROFESSIONAL DEVELOPMENT OF ENTREPRENEURIAL EDUCATORS.	36
Emma O’Brien	
LIMITLESS POSSIBILITIES: PERMISSION AND FREEDOM THROUGH CAPABILITIES.....	37
Melanie O’Leary and Adriano Di Prato	
ENTREPRENEURSHIP FUTURES: WHAT ENTREPRENEURSHIP EDUCATION CAN LEARN FROM DESIGN FUTURING.....	38
Sebastian Planck, Eileen Mandir and Benedikt Groß	
THE ASSESSMENT CANVAS TEMPLATE (ACT): MONITORING DECISION-MAKING PROCESSES IN ENTREPRENEURIAL EDUCATION.....	39
Rianne Poot, Annelies Bobelyn and Yvette Baggen	
EXPANDING THE HORIZON OF NOVICE ENTREPRENEURS.....	40
Gert Poppe	
TOGETHER WE CAN MOVE MOUNTAINS: TEAMWORK SKILLS FOR ENTREPRENEURSHIP EDUCATORS	41
Gunhild Marie Roald and Håvard Engen	
KNOWING, BEING, BECOMING: EFFECTUATION PROCESSES FOR LEARNING AND IDENTITY DEVELOPMENT	42
Gesa Ruge and Sarah Robinson	

HOW CAN WE RE-THINK ASSESSMENT OF STUDENTS' WORK IN ENTREPRENEURSHIP EDUCATION?	43
Ingrid Berg Sivertsen, Dag Håkon Haneberg, Ole Andreas Alsos and Sølvi Solvoll	
EDUCATORS CONTRIBUTING TO INCLUSIVE ENTREPRENEURIAL ECOSYSTEMS	44
Saskia Stoker and Juanfra Alvarado Valenzuela	
EMPOWERING STUDENTS WITH ENTREPRENEURIAL MINDSETS TO SOLVE SUSTAINABILITY CHALLENGES.....	45
Lucia Walsh, Olivia Freeman and Alacoque McAlpine	
RULES OF ENGAGEMENT: THE ROLE OF THE EDUCATOR WHEN SETTING UP ENTREPRENEURIAL TEAMS	46
Peter O. van der Meer	

RESEARCH PAPERS

MAKING SENSE OF 'ENTREPRENEURS IN RESIDENCE' INITIATIVE IN HIGHER EDUCATION	48
Chinthaka Aluthgama-Baduge, Duminda Rajasinghe and Sanna Ilonen	
TEACHING FUTURE TEACHERS ABOUT ENTREPRENEURSHIP: THE FOCUS ON ENTREPRENEURIAL COMPETENCES	49
JuanFra Alvarado Valenzuela and Arjen Douna	
WHAT IS GOING ON IN A UNIVERSITY INCUBATOR? MAPPING OF LEARNING SPACES.....	50
Vegar Lein Ausrød, Sebastian Gram Nguyen Rasmussen, and Helle Meibom Færgemann	
TEACHERS IN K-12 ENTREPRENEURIAL EDUCATION: A 10-YEAR SYSTEMATIC LITERATURE REVIEW...	51
Mustapha Bahassi and Matthias Pepin	
THE 3 E'S; ENTERPRISE, ENTREPRENEURSHIP, AND EMPLOYABILITY ACCORDING TO CAREERS PROFESSIONALS IN UK HIGHER EDUCATION	52
Emily Beaumont, Helen Hook, Tony Orme, Charlotte Godfrey, Claire Martin, Mhairi Threlfall and Jonathan Jones	
ARE INCUBATORS GENDER NEUTRAL: FRONTSTAGE VS. BACKSTAGE OF AN INCUBATOR.....	53
Carmen Been, Saskia Stoker and Ingrid Wakkee	
HOW TO EMPOWER WELFARE PROFESSIONALS' DIGITAL CREATIVITY	54
Maria Høegh Beierholm and Raffaele Brahe-Orlandi	
PACTIVE ENTREPRENEURSHIP EDUCATION? MAKING SPACE OF PASSIVITY TO TRANSFORM ENTREPRENEURSHIP EDUCATION	55
Karin Berglund, Sarah Dodd, Ulla Hytti, Sarah Jack, Serxia Lage-Arias and Karen Verduijn	
UNCERTAINTY MANAGEMENT IN ENTREPRENEURSHIP EDUCATION: WHAT, WHY AND HOW?.....	56
Ester Bernadó	
ENTREPRENEURIAL IDENTITY IN NEW VENTURE TEAMS: UNPACKING THE PROCESS FROM I TO WE.	57
Trine Åsheim Bernhardsen and Iselin Kristine Mauseth Steira	

HOW CAN WE FRUITFULLY DISAGREE ON SOME OF THE CONFLICTING TENSIONS IN ENTREPRENEURSHIP EDUCATION?	58
Per Blenker and Mats Westerberg	
EXPLORING STUDENTS' CONTRIBUTION IN AN INTERNSHIP COURSE – THE COMPANY PERSPECTIVE OF HAVING STUDENT INTERNS	59
Judit J. Bragelien, Inger Beate Pettersen, Tine Nesbø Tørseth, Svein Gunnar Sjøtun and Gesa Pflitsch	
“IN BETWEEN” STUDENT AND ENTREPRENEUR.....	60
Sigrid Westad Brandshaug	
ENTERPRISE AND ENTREPRENEURSHIP EDUCATION IN AN AGE OF CLIMATE AND ECOLOGICAL BREAKDOWN – CREATING CONVERSATIONAL ACTION.....	61
Catherine Brentnall and David Higgins	
THE IMPACT OF FEMALE ROLE MODELS' EXPOSURE ON ENTREPRENEURIAL INTENTIONS AND ENTREPRENEURIAL SELF-EFFICACY.....	62
Fabiana Diana, Carmine Passavanti and Rippa Pierluigi	
SO ENTREPRENEURIAL SKILLS DEVELOP THROUGH ENTREPRENEURSHIP EDUCATION, BUT HOW? ...	63
Benjamin Holen Dybendal, Torgeir Aadland, Hermundur Sigmundsson and Ann Elida Eide	
SPARKING CREATIVITY IN ENTREPRENEURSHIP COURSES: THE EFFECT OF USING THE SCAMPER TECHNIQUE IN BRAINSTORMING SESSIONS	64
Mohammadreza Farrokhnia, Omid Noroozi, Yvette Baggen and Harm Biemans	
IT TAKES TWO TO BECOME A DYAD – UNTANGLING THE DEVELOPMENT OF ENTREPRENEURIAL COMPETENCIES IN PEER MENTORSHIP	66
Ragnhild Nordeng Fauchald and Gustav Hägg	
WHERE IS LEARNING THEORY IN ENTREPRENEURSHIP EDUCATION? – COULD THERE BE PRE-PAVED ROADS TO THE FUTURE IN HIGHER EDUCATION?.....	67
Ragnhild N. Fauchald, Even S.H. Larsen and Mette L. Thomassen	
UNIVERSITY START-UP ACCELERATORS AS IDENTITY WORK AND PLAY SPACES	68
Signe Hedeboe Frederiksen and Claus Thrane	
DISCIPLINARY AND INDUSTRY CONTEXT: THE EXAMPLE OF ENTREPRENEURSHIP EDUCATION IN MEDIA.	69
Britta M. Gossel, Thomas Cyron, Ulrike Rohn and Niall O'Leary	
HOW TO UNDERSTAND THE ENTREPRENEURIAL LEARNING JOURNEY	70
Lars Gottschling-Knudsen and Markus H. Dahm	
THE IMPACT OF AN ONLINE LEARNING ENVIRONMENT ON ENTREPRENEURIAL AND ACADEMIC OUTCOMES.....	71
Dag Håkon Haneberg, Roger Sørheim and Gry Agnete Alsos	
CREATING MEANINGFUL PATHWAYS BETWEEN PROFESSIONAL AND ENTREPRENEURIAL EDUCATION IN NURSING	72
Sine Maria Herholdt-Lomholdt and Camilla Askov Mousing	

ACADEMIC THESIS PROCESS AS ENTREPRENEURIAL, SELF-NEGOTIATED PROCESS	73
Lenita Hietanen	
DEVELOPING ENTREPRENEURSHIP EDUCATION FOR A CAUSE – FORMING TRANSFORMATIVE ENTREPRENEURS	74
Magnus Hoppe and Kamran Namdar	
WHO IS THE ENTREPRENEURIAL EDUCATOR? A TRANSFERABILITY PERSPECTIVE TO TEASE OUT ANTECEDENTS NEEDED TO FORM A SIGNATURE PEDAGOGY	75
Gustav Hägg, Colin Jones and Birgitte Wraae	
VALUE CO-CREATION PROCESSES IN HIGHER EDUCATION	76
Markku Ikävalko, Anna Vuorio and Terhi Virkki-Hatakka	
HEATING UP ENTREPRENEURSHIP EDUCATION: A COOL WAY TO DEVELOP EXECUTIVE FUNCTIONS. 77	
Sophie Jalbert and Matthias Pepin	
INVESTIGATING THE GENDERING OF STEM UNIVERSITY ENTREPRENEURIAL ECOSYSTEMS	78
Sally Jones and Karen Williams Middleton	
TOWARDS THE DEFINITION OF ENTREPRENEURIAL MINDSET: A SYSTEMATIC REVIEW	79
Darsel Keane, Rod B. McNaughton and Deborah Shepherd	
HEAD, HANDS AND HEART AS SUPPORTING TRANSFORMATIVE LEARNING EXPERIENCES IN SUSTAINABLE ENTREPRENEURSHIP	80
Rita Klapper and Andreas Zitek	
BALANCING FREEDOM AND STRUCTURE THROUGH GAMIFICATION IN ENTREPRENEURSHIP EDUCATION	81
Elin Kubberød, Matthew Lynch, Nils Sanne and Amalie Henriette Finrud Jøsendal	
“COMING HOME TO KANSAS”: DESIGNED ACTION SAMPLING AS A NEW RESEARCH METHOD TO HELP BUILD ACTIVE EE COMMUNITIES	82
Martin Lackéus and Carin Sävetun	
THE JURY IS STILL OUT: HOW DOES ENTREPRENEURIAL EDUCATION FOSTER AN ENTREPRENEURIAL MINDSET?	83
Inge Birkbak Larsen and Jan P. Warhuus	
FEYERABENDIAN PERSPECTIVES TO CRITICAL ENTREPRENEURSHIP EDUCATION AND PHILOSOPHICAL REFLEXIVITY	84
Audren Letellier, Rolf Brühl and Christoph Seckler	
SEEKING OUT AUTHENTICITY: DEVELOPING AN ENTREPRENEURSHIP CURRICULUM AS A NON-ENTREPRENEUR	85
Miranda Lewis	
LET’S PLAN IT! LET’S BUILD IT! – DIVERSITY IN DECISION-MAKING LOGICS WITHIN THE PRE-VENTURE TEAM PROCESS AND THE NEGOTIATION OF A SHARED MENTAL MODEL	86
Jicky Lullies	

INSIGHTFUL CO-CREATION – A MECHANISM OF MORE SUSTAINABLE ENTREPRENEURIAL ECOSYSTEMS?	87
Mats Lundqvist and Karen Williams-Middleton	
DOES ENTREPRENEURSHIP PEDAGOGY INFLUENCE NASCENT ENTREPRENEURSHIP? SCOUTING FROM AN ENTREPRENEURIAL PROCESS PERSPECTIVE	88
Jiejie Lyu, Deborah Shepherd and Kerry Lee	
THE VALUE OF CO-CURRICULARITY IN ENTREPRENEURIAL EDUCATION	89
Sofia Louise Martinez-Martinez and Diamanto Politis	
EXPLORING THE RELATIONSHIP BETWEEN TEAM ENTREPRENEURIAL PASSION AND WELL-BEING: EMPIRICAL EVIDENCE.....	90
Sara Maryami, Shashwatashish Pattnaik and Michela Loi	
EMBEDDING ENTREPRENEURIAL COMPETENCE OR JUST “PLAYING THE SYSTEM”?	91
Suzanne Mawson and Lucrezia Casulli	
THE IMPACT OF INTERDISCIPLINARY ENTREPRENEURSHIP EDUCATION ON STUDENTS’ ENTREPRENEURIAL MINDSET	92
Kirsten Mikkelsen, Florian Frenz and Franziska Schmitt	
FANNING THE FLAMES OR LEARNING HOW TO AVOID THEM? HOW EDUCATORS IN SUSTAINABLE ENTREPRENEURSHIP BALANCE STUDENT IDEALISM AND ENTREPRENEURS’ PRAGMATISM	93
Kåre Moberg, Nanna-Katrine Gram Lange and Emilie Kirstine Holse	
TO COMPETE OR NOT TO COMPETE? IT’S COMPLICATED. FINDINGS FROM A LARGE-SCALE PRACTICAL TRIAL FOCUSING ON ENTREPRENEURSHIP COMPETITIONS AT PRIMARY AND SECONDARY LEVEL OF EDUCATION.	94
Kåre Moberg, Nanna-Katrine Gram Lange and Tommy Laugesen	
ENTREPRENEURSHIP EDUCATION IN CONTEXTS OF SOCIOECONOMIC DISADVANTAGED IN BRAZIL..	95
Joysi Moraes, Sandra Mariano, Robson Moreira Cunha and Elisangela Modesto	
FOR INSIDERS ONLY? PERCEPTIONS OF ENTREPRENEURSHIP AT THE UNIVERSITY	96
Gunn-Berit Neergård and Gunhild Marie Roald	
OPERATIONALISING THEORY: THE IMPORTANCE OF ENTREPRENEURS’ WELL-BEING AS A KEY ASSET FOR SUCCESS.	97
Breda O’Dwyer and Helen McGuirk	
STUDENTS’ ENTREPRENEURIAL LEARNING ABROAD: EMOTIONS, COPING AND CAPABILITIES.....	98
Inger Beate Pettersen, Elin Kubberød and Adolph Neethling	
IDEATION TEACHING TECHNIQUES: PHILOSOPHIES, THEORIES AND THE IMPLICATIONS FOR PRACTICE	99
Luke Pittaway	
IMAGERIES OF ENTREPRENEURSHIP EDUCATION IN THE UNITED KINGDOM, 1860-2020	100
Luke Pittaway, Colette Henry, David Kirby and John Thompson	

BALANCING PURPOSES IN ENTREPRENEURSHIP EDUCATION THROUGH CONSTRUCTING TEACHING PHILOSOPHIES	101
Michael Breum Ramsgaard	
ENTREPRENEURSHIP EDUCATION: AN OVERVIEW OF THE LEARNING OBJECTIVES, TEACHING METHODS, ASSESSMENT METHODS, AND ENTREPRENEURIAL COMPETENCIES OF CURRENT ENTREPRENEURSHIP COURSES.....	102
Fernando Rosales, Alexander Tittel and Orestis Terzidis	
SAME, SAME BUT DIFFERENT: HOW DO ENTREPRENEURSHIP EDUCATORS INTEGRATE DESIGN THINKING INTO THEIR CLASSROOMS? INSIGHTS FROM AN INTERVIEW STUDY	103
Hannah Laura Schneider and Louisa Huxtable-Thomas	
LOOKING FOR HOPE IN ENTREPRENEURSHIP EDUCATION.....	104
Sølvi Solvoll, Marta Lindvert and Hannah Blanke	
THE PROMISE OF PROCESS STUDIES IN ENTREPRENEURSHIP EDUCATION	105
Iselin Kristine Mauseth Steira, Lise Aaboen, Karin Andrea Wigger and Sølvi Solvoll	
SIMULATING WITH LIVED EXPERIENCES FOR DEVELOPING ENTREPRENEURIAL COMPETENCIES	106
Martin Stockhaus and Per Hulthén	
INSTITUTIONS AND ENTREPRENEURSHIP EDUCATION: A CRITICAL ANALYSIS OF THE LITERATURE..	107
David Urbano, Tatiana Lopez and Maria Noguera Noguera	
ENTREPRENEUR BILLIONAIRES AS A PEDAGOGICAL DEVICE FOR TEACHING ETHICAL COMPETENCE	108
Marco van Gelderen and Martin Lackéus	
HEALTH(Y) KNOWLEDGE IN MEDTECH VENTURES.....	109
Vårin Vaskinn	
VALUE FOR VALUE: SOCIAL ENTREPRENEURSHIP EDUCATION THROUGH VALUE CREATION EXTRACURRICULAR ACTIVITY	110
Mukesh Hasirumane Venkatesh, Jyothi Shetty, Breda Kenny and Helen Mc Guirk	
FACILITATING INQUIRY: ENTREPRENEURSHIP AS REFLECTIVE DESIGN PRACTICE.....	111
Andreas Volmberg	
VISUALIZING THE VALORIZATION PROCESS FOR STUDENT INNOVATIONS.....	112
Anna Vuorio, Markku Ikävalko and Terhi Virkki-Hatakka	
MENTAL AND FINANCIAL HEALTH IN TIMES OF CHANGE: ARE TRAINED STUDENTS BETTER? A PILOT STUDY.....	113
Edwin Weesie and Alija Ibrahimovic	
THE ROLE OF CORPORATE ENTREPRENEURSHIP EDUCATION FOR THE CAREER.....	114
Joakim Winborg	
TEACHING FUTURE COMPETENCES THROUGH ENTREPRENEURSHIP: AN ENTREPRENEURSHIP EDUCATOR'S REFLECTION	115
Barbara Wolf, Heiko Seif and Patricia Kraft	

A DIDACTICAL APPROACH TO CURRICULAR AND EXTRACURRICULAR ENTREPRENEURIAL LEARNING	116
Birgitte Wraae, Michael Breum Ramsgaard, Katarina Ellborg and Nicolai Nybye	
CONQUERING CLIMATE CHANGE THROUGH ENTREPRENEURSHIP EDUCATION: ROLE OF THE UNIVERSITIES	117
Syed Yaqzan, Manish Singh, Stephanie Hussels and Orsolya Ihasz	
ACTION-BASED TECHNIQUES AS A MEANS TO TEACH EFFECTUATION.....	118
Cynthia Zabel, Sophia Marie Braun and René Mauer	
UNDERSTANDING EMOTIONS IN ACTION-BASED ENTREPRENEURSHIP EDUCATION	119
Cynthia Zabel, Nicolas van de Sandt, Alexander Meister and René Mauer	
ENTREPRENEURSHIP, CREATIVITY, AND STEM TEACHER EDUCATION IN DANISH HIGH SCHOOLS....	120
Chunfang Zhou and Lars Frisdahl	

TEACHING FUTURE TEACHERS ABOUT ENTREPRENEURSHIP: THE FOCUS ON ENTREPRENEURIAL COMPETENCES

JuanFra Alvarado Valenzuela, Amsterdam University of Applied Sciences (j.f.alvarado.valenzuela@hva.nl)
Arjen Douna, Amsterdam University of Applied Sciences

Questions we care about (Objectives)

There is less literature about entrepreneurship education meant for future teachers in secondary schools. Using the input of future teachers and co-creating with them is a way to internalize entrepreneurship in their curriculum. By bringing the idea of a journey, we propose that the entrepreneurial process could greatly benefit from secondary teacher tilting their students to higher levels of expertise and competences over time.

Throughout this study, future teachers were asked to think of activities that would inspire competence development rather than business creation per se. This way there are class activities in schools encouraging secondary-level students to develop an entrepreneurial behavior, to think of creating a business as a means for social impact and to ideate products or services to help achieve sustainable goals. This change of behavior would help secondary students who go later into higher education to focus more in their competences. The main question we care about is: *how do future teachers put in practice the approach of entrepreneurial competences?* And as a supporting question: *which other consequences are being achieved in this process?*

Approach

During the module, we asked the future teachers to build upon the work done by Lans and Van Gelderen (2021) where each of the EntreComp competences is applied to education. Activities for the class were developed and discussed as a group, with input from a real entrepreneur who were interviewed. Taking a qualitative approach and based on the reflection reports, we sought to establish whether and how they were able to draw lessons learned from the entrepreneur's experiences and whether they translated these lessons into class activities

Results and implications

Future teachers in our study were capable of making their first steps to bring entrepreneurial competences to the level of secondary schools. Three main aspects were being considered: aligning teaching methods, addressing individual differences and keeping up with industry trends. By looking at the training of teachers from these aspects, there is much room to keep creating and testing activities in the class to encourage the development of entrepreneurial competence. Their learning process however also showed that each future teacher keeps struggling with the application of this framework, in part due to a lack of years of experience as teacher and in part due to shortage in competence trainings in other assignments of their training. s.

Value/Originality

We contribute to the literature on EE shedding light in the role of future teachers and the way we are training them. The focus on competences could bring secondary students to start ideating more impactful entrepreneurial ideas and keeping their skills alert for opportunities. By starting early in secondary schools, there is a unique potential to prepare these students and show them that the entrepreneurial journey requires certain skills than can be learned and developed over time. And EE for secondary school can greatly benefit by having future teachers to learn from the life stories of entrepreneurs.

Keywords: secondary schools, entrepreneurial competences, teachers, teachers' training