

PAP-21: Methods (Interview, Meta-Analysis, Validation)

Time: Thursday, 30/Aug/2012: 1:30pm - 3:00pm · *Location:* 457

Session Chair: Gunnar Bjørnebekk, Norwegian Center for Child Behavioral Development

PAP-21: 1

: Why do disadvantaged students from low SES Australian schools engage in and disengage from reading? An interview study

Clarence Ng

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PAP-21: 2

Learning Disabilities and Causal Attributions: A Meta-Analysis

Wondimu Ahmed¹, **Alexander Minnaert**¹, Robert Klassen²

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PAP-21: 3

Factor Structure of the Balanced Measure of Psychological Needs Scale in a Portuguese Sample (P-BMPN)

Pedro Miguel Cordeiro, Paula Paixão, Willy Lens, José Silva

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PAP-21: 4

Validation of a motivation-based typology of Angry Aggression

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Thursday

Presentations on Tuesday - Abstracts

SYM-01: Investigating Motivational Goal Setting in Different Learning Contexts

Time: Tuesday, 28/Aug/2012: 9:00am - 10:30am · *Location:* 251

Session Chair: Sanna Järvelä, University of Oulu

Discussant: Alexander Minnaert, University of Groningen

Organizers: Dirk Bissbort & Sanna Järvelä, University of Oulu, Finland

Tuesday

Goal setting plays an important role in student's regulation of behavior and motivation in learning. However, which kind of motivational goals students set in different learning contexts, and how can effective goal setting be promoted to enhance learning and outcomes? This symposium groups four empirical studies that examined students' motivational goal setting in different learning contexts. Several theoretical approaches and empirical results related to motivational goal setting with respect to situational specificity will be discussed, drawing on social cognitive models of self-regulated learning (Boekaerts & Cascallar, 2006; Winne & Hadwin, 2008; Wolters, 2003; Zimmerman, 1989, 2008), concepts of social regulation and shared regulation (Hadwin & Oshige, 2006; Järvelä, Volet, & Järvenoja, 2010; McCaslin, 2004), models of personal goals (Murayama & Elliot 2009), and goal taxonomy (Ford, 1992). In the first paper, McCardle, Webster, and Hadwin investigated how quality of self-set goals improved when students were guided to self-evaluate goal quality compared to students without guide. In the second paper, Bissbort, Järvelä, Järvenoja, and Malmberg examined which types of motivational goals graduate students set in solo and collaborative learning contexts, and how individual goals were connected to group goals. In the third paper, Dresel, Bieg, Fasching, and Tulis studied joint influences of personal goals and goal structures on achievement-relevant outcomes. In the fourth paper, Smit, Boekaerts and Pat-El investigated the structure of non-academic goals of students in pre-vocational secondary education. The symposium seeks to initiate lively discussion about the findings and educational implications by the discussant and with the audience.

SYM-01: 1

Supporting students in setting effective goals for self-regulated learning: Does a tool for weekly self-monitoring help?

Lindsay McCardle, Elizabeth A. Webster, Allyson Hadwin

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Self-regulated learners direct, monitor, evaluate, and adapt their cognition, behaviour, and motivation (Winne & Hadwin, 1998; Zimmerman, 1989, 2000). Winne and Hadwin (2008) describe the two main features of self-regulated learning as (a) recognizing when there is a discrepancy between the current state and the goal state and (b) taking action to change that discrepancy. We propose that to be effective for regulating learning, the goals set by learners should include four main properties: (a) achievable in a short amount of time, (b) specific actions to accomplish learning, (c) a clear standard against which to judge performance, and (d) detailed content of what is to be learned (TASC goals; Webster, Hadwin, & Helm, submitted). In a 12-week, first-year course, students (N = 150) were taught these goal properties and set weekly goals in an online environment (Moodle; Dougiamas, 1999). There were two conditions: (a) students evaluated their

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Motivational and Social Goal Setting in Solo and Collaborative Contexts of Learning

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Modeling Joint Influences of Personal Goals and Goal Structures

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task-specific self-concept). Results indicated situational variation as well as stable between-person differences in goal setting processes. Setting achievement goals in specific learning environments depended on both, personal goal orientations and perceived goal structures. Results revealed additionally, that the actualization of goal setting tendencies in situational goals can depend on environmental conditions. Finally, effects of personal goal orientations on achievement-relevant outcomes were fully mediated and effects of perceived goal structures on achievement-relevant outcomes were partially mediated through the setting of situation-specific goals. Overall, results supported the usefulness of the model extension and the distinction between more stable personal goal setting tendencies and more variable situation-specific goal setting processes.

SYM-01: 4

Multiple motivational goals in the classroom: A validation of the Goal Identification and Facilitation Inventory.

Karin Smit, Monique Boekaerts, Ron Pat-EI

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Goals are seen as important motivational factors that influence behavior (Ford, 1992). Research on goals and motivation has mainly focused on academic goals. However, students bring a variety of goals into the classroom (e.g. Boekaerts & Nimivirta, 2000; Boekaerts, 2008, 2009). Although questionnaires about non-academic goals are available (e.g. Wentzel, 2000; Dowson & McInerney, 2004), the items often include learning. In an attempt to measure academic and non academic goals, Boekaerts developed the 84 item Goal Identification and Facilitation Inventory (GIFI) which aims to measure 16 goals, based on Ford's goal taxonomy (1992). The validity and reliability of the instrument was tested. 603 students (296 girls, 303 boys, 4 missing), with the average age of 14.7 (S.D. = .74) in pre vocational secondary education filled in the self report questionnaire. A Principal Component Analysis was performed. Preliminary results, based on the eigenvalue, the screeplot, parallel analysis and the content of the items, identified a 5 component solution. This solution showed it is difficult for these students to distinguish between the different goals that are related with social behavior and compliance. After items with double loadings were removed, a component that represents well being and positive behavior could be defined. The provision and acquisition of help were perceived as a separate component. Furthermore, the solution showed self determination, material gain, and ego goals as separate components. Preliminary results from Structural Equation Modeling showed a fairly reasonable fit.

Tuesday

SYM-02: The Role of Instrumental Motivation at the Departmental, Course Level and in Job-Seeking Contexts

Time: Tuesday, 28/Aug/2012: 9:00am - 10:30am · *Location:* 254

Session Chair: Richard A. Walker, University of Sydney

Discussant: Markku Niemivirta, University of Helsinki

Organizer: Luke K. Fryer, Kyushu Sangyo University

This symposium examines the effects of instrumental goals on goal commitment, proximal beliefs, motivations as well as persistence in a chosen field of study. The

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SYM-02: 2

Students' goals and their longitudinal effect on learner beliefs and motivations to learn

Luke K. Fryer, Richard A. Walker, Paul Ginns

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Instrumental goals are essential motivations that students bring with them into any learning environment. Research has demonstrated that internally orientated instrumental goals have positive relationships with a range of adaptive motivations and strategies (Simons, Dewitte, & Lens, 2004). The majority of prior research has however only examined cross-sectional relationships which preclude the discussion of direct and mediated effects.

Aims: Test the longitudinal effect of four types of instrumental goals (Distal-Internal, Distal-External, Proximal-external, and Social) and perceptions of Good teaching on two types of Achievement goals (Mastery and Performance avoidance), and two sources of Amotivation (Effort and Task-value beliefs).

Methodology: First and second year students of mixed major at one Japanese university completed a survey during regular class time, two times, eight months apart. Data were validated through factor analysis and a model was constructed and tested employing latent variables with Structural Equation Modeling.

Results: Corresponding with prior empirical research Distal-internal goals and perceptions of Good teaching were found to encourage adaptive task-orientated goals and decrease learner beliefs that led to amotivation.

Educational and theoretical significance: The longitudinal results establish the importance of internally orientated goals and good teaching as having an important effect on learner beliefs about task-value and effort. By replicating past cross-sectional research the results also highlight the positive effect of internally orientated goals and good teaching for adaptive task-orientated goals.

SYM-02: 3

Persistence when the Going Gets Tough: Perceptions of Instrumentality and Academic Persistence.

Jenefer Husman, Andrea Vest, Natalie Eggum, Cecelia Maez, Katherine G. Nelson

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A cohort-longitudinal examination of the relationship between college students' first semester impression of the instrumentality of their first classes and their persistence in a difficult major. One-hundred and five engineering majors were surveyed in their first semester at University. Student perceptions of instrumentality of the first course they took in engineering accounted for a significant amount of variance in the number of semesters students chose to stay in the engineering program, students' first semester GPA and their self-efficacy for course performance did not.

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Organizer: Maarten Vansteenkiste, University of Gent

SYM-03: 1

Maarten Vansteenkiste¹, Athanasios Mouratidis²

Within Self-Determination Theory (SDT; Deci & Ryan, 2008; Vansteenkiste, Soenens, & Niemiec, 2010), it is maintained that the satisfaction of the basic psychological needs for autonomy (i.e., experiencing a sense of volition), competence (i.e., experiencing a sense of effectiveness), and relatedness (i.e., experiencing a sense of connection) represent the necessary nutrients for people's well-being. In this study, we employed a diary methodology to examine the association between day-to-day fluctuation in psychological need satisfaction and frustration and daily sleep patterns. Adult participants ($N = 73$, 28.8% males; Mean age = 43.08 $SD = 11.52$) as well as adolescent participants ($N = 275$, 49.8% males; Mean age = 16.51 $SD = 1.18$) kept a sleep diary (Monk et al., 1994) reporting on their daily fatigue and need satisfaction at night and sleep quality (e.g., alertness) in the morning during 14 consecutive days. Multilevel analyses using HLM indicated that daily need satisfaction related more strongly to indicators of sleep quality than to indicators of sleep quantity. Specifically, need satisfaction and need frustration contributed, respectively, to (a) daily fatigue, (b) positive and negative reasons for getting awake at night and (c) morning alertness. These results suggest that the satisfaction of one's psychological needs is implicated in the degree to which one is able to get one's physical needs met and indicate that the effects of daily need satisfaction radiate beyond one's psychological functioning per se.

Basic Need Satisfaction and its Relationship with Flourishing and Gratitude

Lennia Matos¹, Maarten Vansteenkiste², Bart Soenens², Willy Lens³, Rafael Gargurevich¹

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Self-Determination theory proposes that the three basic psychological needs (autonomy, competence, and relatedness) are essential for optimal human development and are considered very important nutrients for optimal functioning (Vansteenkiste, Niemiec & Soenens, 2010). In the last years, Positive Psychology (Seligman & Csikszentmihalyi, 2000) emerged as a movement that proposed that instead of focusing in weaknesses and illnesses it is important to put emphasis in studying human strengths and positive outcomes (Deci & Vansteenkiste, 2004). Two of these outcomes refer to flourishing and gratitude. The satisfaction of the basic psychological needs can help to understand how people can have an optimal development and functioning. There is extensive evidence regarding need satisfaction and its impact on psychological well-being. Therefore it seems clear its relationship to outcomes such as flourishing and gratitude. The aim of our research was to examine the relationship between flourishing and gratitude and the satisfaction of the three basic needs. In this study, 450 Peruvian bank workers participated (40.9% males, Mean age=28.16). The measures (Flourishing scale, Gratitude Questionnaire, Basic Need Satisfaction in Life) were valid and reliable in our sample. Hierarchical regressions were performed and as expected, the three basic psychological needs were positive predictors of flourishing and gratitude. In a second set of analyses (longitudinal) we ran a Latent change model and it yielded a satisfactory fit to the data and the changes in need satisfaction were related to changes in both flourishing and gratitude over time.

Tuesday

SYM-03: 3

Presenting a new and cross-culturally valid scale on basic psychological need satisfaction in four countries: Exploring the link with financial and health satisfaction

Beiwen Chen¹, Maarten Vansteenkiste¹, Wim Beyers¹, Ken Sheldon², Richard Ryan³, Lennia Matos⁴, Bart Soenens¹

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In the current study, we aim to introduce a new, cross-culturally valid scale on basic psychological need satisfaction and to investigate its relation with health and financial satisfactions and well-being in four culturally diverse countries (i.e., China, Belgium, US, and Peru). More specifically, we pursued the following three aims. Based on the self-determination theory, we first developed and validated a new basic psychological needs scale. We deemed it important to test the measurement equivalence of the newly proposed scale since a cross-culturally validated questionnaire on this issue is currently lacking in the literature. Second, we examined the association between basic psychological needs satisfaction and well-being and examined whether the effect of psychological need satisfaction depends on the satisfaction of the health and financial needs satisfaction (moderation). In an additional set of analyses, we explored whether health and financial satisfaction relate to the desires for psychological need satisfaction, as can be hypothesized based on Maslow's hierarchical need theory. Third, we

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plausible ideas for improving their town, and to synthesize the ideas in a slogan. The traditional task consisted of writing the ideas without a slogan. Both writing tasks were carried out individually or collaboratively. In the audience condition, students were told that the municipal administration would receive and evaluate the best slogans. Thirty 7th graders, whose writing ability was rated by teachers, were assigned to each of the 8 conditions ($N = 240$). The effects of the challenging writing task were assessed through questionnaires administered before and after the task, and through linguistic analysis of the written texts. Findings will be discussed in light of prior research on challenging writing tasks.

SYM-04: 2

Preservice science teachers' strategies during challenging tasks

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This qualitative study explored preservice science teachers' engagement (PSTs; $N = 19$) during small group tasks and whole class discussions during a semester-long inquiry-based elective science course. Based on research on small-group interactions demonstrating student avoidance of challenging tasks, as well as on interest research stressing the generation of situational interest by particular conditions of a task, this study addressed (1) whether tasks that model inquiry-based science teaching arouse PSTs' situational interest, and (2) whether the task's level of complexity (theoretical and practical) influences student engagement. Results revealed that PSTs' engagement (frequency and level of interaction) during small-group and whole-class discussions varied depending on the nature of the task. Despite the instructor's probing and guided questions, engaging PSTs in theoretical discussions was difficult. PSTs quickly switched toward practical issues and the instructor complied; she moved on to the next topic. PSTs' enthusiasm to engage in practice-based discussions is interpreted as reflecting a triggered situational interest, given that there were more PST participants in discussion and the quality of their arguments was stronger in the practice-based discussions. Such interest almost vanished (only one to two PSTs responded and with lower quality of argumentation) when PSTs were challenged with abstract and theoretical questions. Questions for future research should address: (1) reasons for PSTs' resistance towards and loss of triggered situational interest during theoretical components of tasks and (2) what characteristics of the task (complexity, type) provide a balance between practical and theoretical components reflecting intellectual rigor, better preparing future science teachers.

SYM-04: 3

Is there a curvilinear relation between interest and performance?

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Many studies have reported a small relation between interest and performance ($r = .30$, meta-analysis by Schiefele, Krapp, & Schreyer, 1993). However, until recently the possibility that a curvilinear relation is a better fit had not been tested. Atkinson (1974) proposed that motivation and performance might follow the Yerkes-Dodson rule, as highly motivated people may work to mastery and when time is limited not finish their work.

Teachers' motivational profiles

Irina Andreitz, Barbara Hanfstingl, Florian H. Müller

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Following the assumptions of self-determination theory (SDT; Ryan & Deci, 2002), this presentation deals with inter-individual differences in teachers' work motivation. SDT proposes five different qualities of motivation, each reflecting another level of self-determination and control, respectively. Human behavior is influenced by all five forms of motivation, and they are all present simultaneously within an individual to a different degree (Ntoumanis, 2002). The development and maintenance of the different forms of motivation are connected to the fulfillment of the three basic psychological needs for autonomy, competence and social relatedness. In contrast to a vast number of studies which are based on SDT, the study presented applies a person-oriented rather than a variable-oriented approach. Using cluster analysis we examined combinations of different types of motivation within a sample of 186 Austrian teachers. Precisely, we could identify teachers' motivational profiles that differ in their motivational quality. In a next step, the profiles were linked to the fulfillment of the basic needs within teachers' working environment. ANOVA showed differences in the satisfaction of the psychological needs for autonomy and competence as well as for perceived constraints and support at work.

Motivational prerequisites of teacher cooperation

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Although in numerous studies, teacher cooperation was shown to be one of the crucial factors for school quality (e.g. Sammons, Hillman & Mortimore, 1995), teachers' individual motives regarding their willingness to cooperate have been neglected up to now. A well-established model that accounts for individual motives in general is the Expected Value Model (EVM) by Eccles and Wigfield (2002) consisting of the subjective task value, the expectation of success and the final achievement-related choices and performances. Since in this EVM, neither structural nor social conditions of cooperation are considered, we extended the model by recurring to the works by Ajzen and Fishbein (1980) also including individuals' subjective norm which is a crucial factor regarding the formation of intentions.

Based on an online teacher questionnaire (N=550) administered to the teaching staff of 31 upper secondary schools in the German Federal State of North Rhine-Westphalia, we test the hypothesis that apart from teachers' subjective value and their success expectation, also their subjective norm has a distinct impact on their actual cooperation decision.

By means of structural equation modeling we find that although a direct significant effect of the subjective norm component on teachers' actual decisions is missing, we observe a small (though still significant) impact of teachers' subjective norm on their subjective value, and a very large effect of teachers' subjective value on their actual cooperation behavior. These results indicate that direct appeals to teachers' subjective value are the most promising factors to foster teacher cooperation.

Barbara Hanfstingl

Based on person-system-interaction theory (PSI-theory, Kuhl & Fuhrmann, 2008) and self-determination theory (SDT; Ryan & Deci, 2002), this study aims to investigate the relationship between motivational regulation styles and different aspects of self-regulation and spirituality. Hanfstingl et al. (2010) showed that implicit self-regulation plays an important mediating role for the correlation between the three psychological basic needs and professional intrinsic motivation. Therefore, we postulate that apart from environmental factors, particularly person-internal factors may co-determine intrinsic motivation. Koole et al. (2010) noted that people who tend to be religious show higher levels of implicit self-regulative competencies. Thus, the aim of the study presented is to investigate which aspects of self-regulation and spirituality are relevant for intrinsic motivation in more detail.

POS-1: Self-Determined Motivation

POS-1: 1

Célénie Brasselet, Alain Guerrien

This research focuses on the relations between context in which the academic decision-making progresses and student's later motivation to school, according to self-determination theory (Deci & Ryan, 1985, 2002). Some students perceive their academic decision-making as constrained or determined by external influences; others feel it as self-determined or chosen. These two situations are supposed to have a different impact on motivation to school. Effectively, an unchosen academic decision-making means that student follow a pathway that doesn't match his or her interests and aspirations, whereas a chosen academic pathway reflects a personal choice. So, the first is supposed to hinder later academic motivation, whereas the latter would promote autonomous motivation. 702 students, from 11th grade, completed two questionnaires: the academic motivation scale (Vallerand, 1991) and a questionnaire (in the process of validation – Brasselet & Guerrien) that evaluates self-determined academic decision-making and the perception of positive and negative influence in the academic choice. The results indicate that a chosen academic pathway is associated to an autonomous academic

motivation. Positive influence is a significant predictor of autonomous and controlled motivation. Finally, negative influence is related to controlled motivation. That confirms the context in which educational guidance proceeds may have an impact on later motivation. These results in line with SDT seem to have a great interest for practitioners in terms of motivational remediation insofar as they facilitate a better understanding of the reasons of certain academic difficulties related to the topic of educational guidance.

POS-1: 2

A Theoretical and Empirical Examination of links between Self Determination Theory and Reversal Theory: Psychological Need Satisfaction and Meta-motivational State Reversals

Laura Bethan Thomas, Emily Oliver, Joanne Thatcher

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The proposed poster will present theoretical arguments and pilot data from two laboratory-based studies that examine links between Self-Determination Theory (SDT; Deci & Ryan, 2000) and reversal theory (Apter, 1982). SDT discusses innate psychological needs for autonomy, competence, and relatedness, satisfaction of which is essential for psychological health, well-being, and exploration of inherent growth tendencies. Reversal theory proposes four mutually exclusive pairs of meta-motivational states which are characterised by distinct ways of interpreting one's own motivation (e.g., telic vs. paratelic; Apter, 2001); regular reversal between states is required to be considered 'psychologically healthy' however, the precise triggers of reversals are unclear. It is argued that need satisfaction and thwarting may act to induce a reversal. Further, we suggest that lability and frequency of individuals' reversals may contribute to well-being through enabling a balanced satisfaction of one's needs (cf. Sheldon & Gunz, 2009; Sheldon & Niemiec, 2006).

Using environmental manipulations of need satisfaction (e.g., Deci, Eghrari, Patrick, & Leone, 1994) and implicit association tests to identify meta-motivational states, the pilot data will establish whether need thwarting causes frustration induced reversals (e.g., from conformist state to negativistic state), and whether need satisfaction causes satiation induced reversals (e.g., from telic state to paratelic state). From an applied perspective the ability to induce reversals and achieve a balance of need satisfaction may prevent maladaptive behaviours associated with both need thwarting and inhibited reversals.

POS-1: 3

What Predicts Middle School Students' Intrinsic Motivation in Mathematics? The Relationship between Perceived Teacher Autonomy Support and Adolescents' Self-Determined Academic Motivation

Kenneth Whaley

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This study applied self-determination theory (SDT) to investigate the relationship between seventh grade students' perceptions of their math teacher's autonomy support and their intrinsic motivation and academic achievement in prealgebra. Participants (N = 362) and their five math teachers were drawn from an ethnically-diverse public middle school in the southeastern United States. Participants completed the Learning Climate Questionnaire (Williams & Deci, 1996) to measure their perceived teacher autonomy support; the Intrinsic Motivation Inventory (McAuley, Duncan, & Tammen, 1989) to

behaviors, and negative parental conditional regard, in which love is withdrawn when the children fail to meet parents' standards, can lead to the children's later ill-being. As such, the first aim of the present research is to provide further evidence of whether positive and negative parental conditional regard also predict maladaptive perfectionism. It also shows whether individuals who do not experience these parental approaches will develop a more adaptive form of perfectionism, which involves a personal striving for high standards, and has been found to predict academic achievements and motivation. In the second part of the study, the same group of participants was randomly assigned into two groups. Both groups were asked to engage in inherently interesting puzzles, in which those in the first group were told that they had finished only 39% of the total puzzles, while participants in the second group were told that they had succeeded at 92% of the puzzles. The present results demonstrate whether receiving success-vs-failure feedback after performing an interesting task moderates the extent to which adaptive and maladaptive perfectionism impact intrinsic motivation for the task.

POS-2: Motivation for Teaching

Time: Tuesday, 28/Aug/2012: 10:30am - 11:30am · *Location:* 0.251

POS-2: 1

Passion for teaching: relationships with job satisfaction, self-efficacy, positive affect, and subjective happiness.

Angelica Moè

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Previous research has shown that an harmonious passion for teaching reduces the risk of burnout and increases job satisfaction. However, the relationships with motivational and emotional aspects, such as self-efficacy, positive affect and subjective happiness have not yet been assessed. This study tested the hypothesis that a passion for teaching relates positively with these motivational, and affective aspects, providing it is an harmonious passion. Two hundred and ten teachers filled in a booklet of questionnaires aimed at assessing their passion for teaching, job satisfaction, affect, subjective happiness, and self-efficacy beliefs. The results confirmed that an harmonious passion for teaching relates positively with all the aspects considered and is affected mainly by job satisfaction, self-efficacy and positive affect. The discussion focuses on the importance of motivational aspects in shaping 'effective teachers'.

POS-2: 2

Effectiveness of Induction Year Programme - what matters the most?

Merilyn Meristo

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Many novice teachers experience difficulties starting their careers at school and many of them leave the profession. A support programme for novice teachers, the Induction Year Programme, has been running now for eight years in Estonia. However, it is not clear how the Induction Year Programme has influenced Estonian teachers' decisions to stay in the profession. The main aim of this research is to evaluate teachers' perceptions and appraisal of the Induction Year Programme by measuring participants' job satisfaction, self-efficacy, motivation and sense of community and by determining their internal connectedness, and by comparing two groups of teachers: those who have participated in the Induction Year Programme and those who have not. We expect that the

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social and cultural context, educational policy, and also teachers' implicit theories of motivation. My research will focus on the role of the latter one.

The poster will present the theoretical background of my research, its schedule and the methodological problems which are not plainly solved at this moment but should be solved until the symposium.

Theoretical background of the research concerns two main fields: theories of motivation, especially motivation to learn (Boekaerts, Deci, Dweck, Elliot, Pekrun, Pintrich, Ryan) and concept of implicit theories. As I have not found yet any research of teachers' implicit theories of motivation, I will start with broader concepts of implicit theories in educational and managerial context and I will try to apply it to the motivation.

As the project has started in the academic year 2011/2012, I am still specifying the sample and the methods of the research (e.g. semi-structured interviews with teachers, documentary research, observation in classroom). The data collection is planned for the next academic year.

POS-2: 5

The Teachers' Sense of Efficacy Scale: Confirming the Factor Structure with Beginning Pre-service Teachers

Lisa C. Duffin¹, Brian F. French², Helen Patrick³

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This study examined the factor structure of the Teachers' Sense of Efficacy Scale (TSES; Tschannen-Moran & Woolfolk Hoy, 2001) long form using TSES scores of 2 different samples of pre-service teachers. More specifically, we examined scores from pre-service teachers who were at the beginning stage of teacher development using confirmatory factor analysis (CFA) to gather internal structure score validity evidence. Two plausible rival models derived from prior research were tested using CFA: a 1-factor model (Fives & Buehl, 2010; Tschannen-Moran & Woolfolk Hoy, 2001) and a 3-factor model (Poulou, 2007). Results showed good fit for both models; however, high inter-factor correlations indicate strong support for the unidimensional model. Findings suggest that pre-service teachers who lack pedagogical knowledge and teaching experience do not differentiate between the different aspects of teaching measured by the TSES. Questions for future research are raised.

POS-2: 6

Teaching at university: an emotional practice?

Gerda Hagenauer, Simone Volet

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The present study explores the emotional experiences of university teachers during teacher-student interactions. While the body of research on teachers emotions in the school context continually grows this field is still under-researched in the higher education context. Based on a cognitive approach to emotions we aim to shed light on the emotions of university teachers, their antecedents and their consequences. Methodologically a qualitative orientated approach is applied. Twelve experienced university teachers in preservice education at two different public universities in Western