ANTECEDENTS TO USER ENGAGEMENT IN SOFTWARE DEVELOPMENT

Peggy M. Beranek, College of Business, University of Colorado at Colorado Springs, 1420 Austin Bluffs Parkway, Colorado Springs, CO 80918, 719-255-3196, mberanek@uccs.edu

ABSTRACT

This research seeks to address a gap in understanding new insights into antecedents to user participation in software development. The role of users in software development is vital in building the best software products as efficiently as possible. Bringing users into the development process is important in overcoming the problems associated with failure to meet software development goals including meeting requirements, satisfying users, finishing on time, and staying within budget. It understood that user participation can properly prepare and train users for this role. This research will study antecedents to user participation using theories, Job Engagement Theory and Workplace Spirituality.

KEYWORDS: job engagement theory, workplace spirituality, software development, User participation, project management

INTRODUCTION

Antecedents to User Engagement in Software Development

Purpose and significance of the research project

The first theory we focus on is Job Engagement Theory (Kahn, 1990), (Rich, 2010), this is described as the utilization of an employee's full self in terms of physical, cognitive and emotional energies to task performance. Kahn (Kahn, 1990) described job engagement as the utilization of an employee's full self in terms of physical, cognitive and emotional energies to task performance. Three psychological conditions that are antecedents of job engagement are meaningfulness, safety and availability (Table 1). This theory may provide a more comprehensive explanation for job performance effects and thereby help foster user engagement.

Psychological	Engagement
Conditions	
Meaningfulness/	Physical tasks
Value	
Safety/Expectations	Emotional connections
Availability/Ability	Cognitive Contribution

Table 1 Job Engagment

The second theory we focus on is Workplace Spirituality (WPS) which provides us with a theoretical framework that allows for levels of analysis at the individual, group and organizational level (table 2). Workplace spirituality involves alignment between one's core beliefs and the values of their organization, (Mitroff and Denton, 1999), and is defined as "... the recognition that employees have an inner life that nourishes and is nourished by meaningful work that takes place in the context of community (Ashmos and Duchon, 2000, p. 137).

Individual Level	Group Level	Organization Level
Meaningful Work	Sense of Community	Alignment with
		Organization Values
Enjoyment	Sense of connection with	Feel connected to
	Co-workers	organization's goals
Energized	Employee/group support	Identify with
		organization mission
		and values
Personal meaning	Group common purpose	Organization cares
and purpose		about employees

Table 2 Three dimensions of Work Spirituality

Methodology

The research involves the use of two surveys, one for users participating in software development and one for project managers managing the participating users and the software project. The questions pertaining to job engagement have been developed and tested.