

ORFF-SCHULWERK APPROACH AND FLOW INDICATORS IN MUSIC EDUCATION CONTEXT: A PRELIMINARY STUDY IN PORTUGAL

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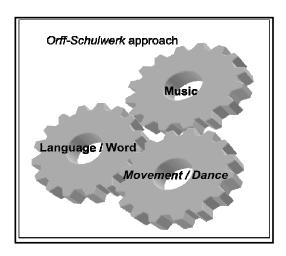
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Extensive literature exists on Flow Theory. However there is a lack of published research investigating possible links between *Orff-Schulwerk* approach and Csikszentmihalyi's concept of flow or optimal experience. Based on preliminary results from an ongoing research on Music / Music Pedagogy and (is links to) Musical Thought / Musical Cognition, the present paper aims to discuss the existence of optimal experiences / flow states boosted by *Orff-Schulwerk* approach activities / teaching music strategies in the context of Music Education in a Portuguese general public school (5th and 6th grades). Attempting to verify, analyze and understand these relationships, an empirical process was developed based on the *Flow Theory - Optimal Experience* (Csikszentmihalyi 1975, 1988, 1990) and consequently on *FIMA - Flow Indicators in Musical Activity* developed by Custodero (1998, 1999). Conventional flow methodology is adapted in order to define and to operacionalize cognitive strategies exhibited during *Orff-Schulwerk* approach activities in Music Eduction context. Results clearly validated this hipotesys and show how (and which) *Orff-Schulwerk* activities can provide children optimal experience /flow states in Music Education classes.

Keywords: Orff-Schulwerk approach, Musical Thougt, Musical Cognition, Flow Theory, Music Education.

INTRODUCTION / LITERATURE REVIEW

The second half of the XX century brings proximity between experience and knowledge. Constructivism ideas present on the philosofical base of Education and consequently on Music Education hold particular significance for the investigation of artistic understanding. In this scenario, promoving creative and emotional experiences based on verbal, musical and body expression, *Orff-Schulwerk* approach offer to any human being deep moments of music enjoyment, learning and knowledge. To sing a song, move, dance, play musical instruments, using games, exploration, improvisation and composition are activities that, based on chinese proverb *Tell me and I will Forget; Show me and I can remember; Involve me and I will understand*, make the *Orff-Schulwerk* one of the most adopted and successfull musical teaching/learning approaches in the world.

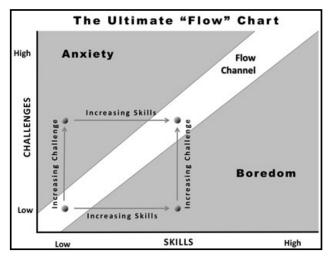


(Figure 1: Orff-Schulwerk approach "Scheme").

Carl Orff's idea about Music Education was always to put the practical work in the foreground. Every one of us, (child or adult) have "musical potencial", but we need to experience, act, enjoy, feel, and interact in order to get a cognitive and affective development. In is own words (...) The Schulwerk aims to bring the child to him – or herself. It aims to awaken fantasy. This builds character, it creates humanity. (...)"(Orff, 1978)

Joy, hapyness, sucess, gratification, comfort, satisfaction, relish, pleasure, are positive aspects of human experience (life involvement), which Csikszentmihalyi called "flow states". In 1975, Csikszentmihalyi identified four essential components (and eight dimensions) to the occurrence of Flow State(s)/ Optimal Experience(s): Control; Attention; Curisosity and Intrinsic Interest. "(...) The phenomenology of Flow suggests that the reason why we enjoy a particular activity is not because such pleasure has been previously programmed in our nervous system, but because of something discovered as a result of interaction. (...)"

(Csikszentmihalyi, 1990). Csikszentmihaly define Flow / Optimal Experience as a "state" between "Boredom" and "Anxiety", produced when there is a equilibrium between "Challenges" and "Skills".



(Figure 2: "Anxiety, Boredom and Flow" – Csikszentmihaly, 1990).

Knowning that flow is the holistic experience that people feel when they act with total involvement (Csikszentmihalyi, 1997), several studies about Flow / Optimal Experience prove the existence of a relationship between "flow states" and highly creative performances in distinct areas of human life. In Music / Music Education context, Flow Theory was (and still is) a solid reference in multiple and fruitful empirical research on musical cognition, musical learning, musical creativity and musical performance studies.

Based on Csikszentmihalyi's ESM – Experience Smapling Method, Custodero (1999) developed and applied the FIMA - Flow Indicators in Musical Activity to study Flow / Optimal Experience process in Music Education context. Custodero developed several studies (1998, 1999, 2000, 2002, 2005, 2006) involving children between zero and eleven years old, to awnser questions emerged rewarding children's music learning: How do children construct their own musical understandings? Can his constructions (assimiliations / accommodations / transformations) be observed? Since cognition results from interaction with the environment, are there specific conditions that best facilitate musical understandings? The basic assumption was the possibility of observing cognitive processes in children through physical manifestations. Data were collected (in educational context) based on / through: Direct observation; Video / Audio recording of all sessions (FIMA) and interviews / surveys (AFIMA – Adapted Flow Indicators Musical Activity. Coding scheme of data analisys has been defined in three flow indicators categories (FIMA): 1) Challenge Seeking Indicators; 2) Challenge Monitoring Indicators; 3) Social Context Indicators.

(Table 1: "FIMA Coding Scheme Data Analisys" – Custodero, 1999).

Categories	Flow Indicators	Definition
Challenge Seeking Indicators (To get oneself into flow)	Self-Assignment	Purposeful activity initiated by the child, rather than by the adult.
	Self-Correction	Error acknowledgement and adjustment to conform to established "rules" for an activity in the absence of physical or verbal instruction from adult.
	Deliberate Gestrure	Quality of movement very focused and controlled, often exaggerated but with no extraneous motion,
Challenge Monitoring Indicators	Antecipation	Verbal or physical attempts to guess or show "what comes next" during the presented activity.
(To sustain flow experience)	Expansion	Making the presented material more challenging by transforming it in some way.
	Extension	Continuing to engage with the presented material after the teacher has finished.
Social Context Indicators	Awareness of Adults and Peers	Any observable interactions that involve prolonged gaze, head turning, or physical movement toward another person. Attempts to engage another person physically or verbally are especially noteworthy.

METHODOLOGY

The preliminary study envolved two classes of children between 9 and 13 years old of a Portuguese general public school (5th and 6th grades) in Music Eduaction context (n=50). The first task was the development and the implementation of "annualy", "quarterly" and "diary" lesson plans based on *Orff-Schulwerk* approach according the official Music Education program and "Learning Goals" set by the Portuguese Ministry of Education.

Data were collected (*in loco*) during three months of classes through direct observation using video / audio recording and analysided based on Custodero's "FIMA coding scheme data analysis" (Table 1). This analysis is supported on the assumption that observing children's contextualized use of musical knowledge provides an ecologically valid window into their cognitive processes. (Custodero, 2005)

RESULTS / DISCUSSION

The analysis of videotaped classes provided preliminary results that reveal the existence of strong conections between *Orff-Schulwerk* approach activities and flow states occurrency.

The preliminary study results validated the adopted methodology (ongoing research) and revealed several examples of "Flow Indicators" pertaining to each of the three "dimensions" defined in "FIMA" (Custodero, 1998, 1999):

(Table 2, 3 and 4: "Flow Indicators in Orff-Schulwerk Activities).

1. Challenge Seeking Indicators

Flow Indicator	Observed Examples (in Orff-Schulwerk activities)
Self-Assignment	Student creates/prepares voluntarily his "sound gesture" in class pause in the whole group/class ("Sound gesture" improvisation / Movement activity).
Self-Correction	Student realizes his mistake during the repetition of "sound gesture" and try to do it correctly with the whole group/class. (Sound gesture improvisation / Movement activity).
Deliberate Gestrure	Student "gets down" (is body) when "sound gesture" of (whole group/class) is done in <i>piano</i> dynamic. ("Sound gesture" improvisation / movement activity).

2. Challenge Monitoring Indicators

Antecipation	Spontaneously student vocally completes a musical phrase (melody) after eating a given begin. (Singing / Moving activity).
Expansion	Student creates "sound gesture" of higher "rhythm and speed complexity. ("Sound gesture" improvisation / Movement activity).
Extension	Students remind / create voluntarily "sound gesture" and vocalize melody of a song in class pause and still pratice them after class end. ("Sound gesture" improvisation / Movement and singing activity).

3. Social Context Indicators

Awareness of Adults and Peers	Students repeat voluntarily with peers "sound gestures" to help him/them on the correction and practice with whole group/class. ("Sound gesture" improvisation / Movement activity).
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The presented results allowed to validate a functional method to define cognitive strategies exhibited during *Orff-Schulwerk* approach activities assessing children musical cognition through systematic and rigorous observation of their behaviors in Music Eduction context. During *Orff-Schulwerk* activities developed in the preliminary study (according to referred lesson plans), classes were always an "experimental field" where children could sing, play, move and create, providing unforgettable moments of joy, satisfaction, relish and success. About this idea Hallan (2010) argues that activities that provides the greatest opportunities for children to experience and express emotions in their music education are those relating to creating music (through improvasation or composition), and actively making music through playing an instrument or singing. Indeed, *Orff-Schulwerk* activities boosts optimal experiences / flow states, teaching children to think deeply, feel, act, communicate and through that "(...) *Awaken fantasy... Builds character ... Creates humanity* (...)".

In addition, in order to give validity to the methodology, the preliminary results also give a strong support for the initially formulated hypothesis (ongoing research) that Musical Thought / Musical Cognition can be powered through creative and emotional processes related to *Orff-Schulwerk* approach activities. This relates directly to Csikszentmihalyi's idea (1997): when we act in the fullness of the flow experience, we are building a bridge to the future of "our universe". More and more, evidence accumulates that *Orff-Schulwerk* approach activities encompass the essential (eight) dimensions defined by Csikszentmihalyi (1990) to the occurrence of optimal experience / flow:

- Clear goals and immediate feedback;
- Equilibrium between the level of challenge and personal skill;
- Merging of action and awareness;
- Focussed concentration;
- Sense of potential control;
- Loss of self-consciousness;
- Time distortion;
- Autotelic or self-rewarding experience.

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REFERENCES

Cohen Louis and Manion Lawrence, (1989) Research Methods in Education. London: Routledge.

Csikszentmihalyi Mihaly, (1975) Beyond Boredom and Anxiety. San Francisco CA: Jossey-Bass.

Csikszentmihalyi Mihaly, (1988) "The flow experience and its significance for human psychology" in Csikszentmihalyi Mihaly and Csikszentmihalyi Isabella (Eds.) (1998) *Optimal Experience: Psychology Studies of Flow in Consciousness*, Cambridge: Cambridge University Press.

Csikszentmihalyi Mihaly, (1990) Flow: The Psychology of Optimal Experience. New York: Harper & Row.

Csikszentmihalyi Mihaly, (1993) The Evolving Self: A Psychology for the Third Millennium. New York: Basic Books.

Csikszentmihalyi Mihaly, (1997) Finding Flow: The Psychology Of Engagement With Everyday Life. New York: Basic Books.

Custodero Lori, (1998) "Observing flow in young children's music learning". General Music Today, 12 (1): 21-27.

Custodero Lori, (1999) "Constructing of musical understandings: The flow-cognition interface". *Cognitive Processes of Children Engaged in Musical Activity* – Conference paper.

Custodero Lori, (2000) "Engagement and experience: a model for the study of children's musical cognition" in SLoboda John (ed.) *Proceedings of the Sixth International Conference on Music Perception and Cognition*. UK: Keele University Department of Psychology, (683-690).

Custodero Lori, (2002) "Connecting with the musical moment: Observations of flow experience in preschool-aged children", in Holgersen E. (ed.) *Proceedings of the International Society for Music Education Early Childhood Commission Seminar*. Copenhagen: International Society for Music Education.

Custodero Lori, (2005) "Observable indicators of flow experience: A developmental perspective of musical engagement in young children from infancy to school age". *Music Education Research*, 7(2): 185-209.

Custodero Lori and Stamou Leloula (2006) "Engaging classrooms: Flow indicators as tools for pedagogical transformation", in *Proceedings of the 9th International Conference on Music Perception and Cognition*. Bologna, Italy: Bononia University Press.

DeNora Tia, (2000) Music in everyday life. Cambridge: Cambridge University Press.

Hallan Susan, (2010) "Music Education: The Role of Affect", in Sloboda John and Juslin Patrick (Eds.) (2010) *Handbook of Music and Emotion: Theory, Research, Applications*) New York: Oxford University Press: 791-817.

Jackson Susan and Eklund Robert, (2004) *The Flow Scales Manual*. Morgantown, WV: Fitness Information Technology.

Orff Carl, (1978) The Schulwerk – Volume 3 of Carl Orff / Documentation, His Life and Works / An eight volume autobiography. New York: Schott Music Corp.

Peretz Isabelle, (2001) "Listen to the brain: a biological perspective on music and emotion" in Sloboda John and Juslin Patrick (Eds.) (2001) *Music and Emotion: theory and research*. New York: Oxford University Press: 105-135.

Perry Susan, (2001) Writing in Flow: Keys to Enhanced Creativity. Cincinnati - Ohio: Writer's Digest Books.

Sloboda Jonh, (2005) Exploring the Musical Mind: Cognition, Emotion, Ability, Function. Oxford: Oxford University Press.

Sloboda Jonh et al. (2001) "Functions of music in everyday life: an exploratory study using the Experience Sampling Method" in *Musicae Scientiae* 1: 9-29.

Sloboda Jonh and Juslin Patrick, (Eds.) (2010) *Handbook of Music and Emotion: Theory, Research, Applications*. New York: Oxford University Press.