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Proceedings of the 1st International Conference of the Journal Scuola Democratica

EDUCATION AND POST-DEMOCRACY

5-8 June 2019 Cagliari Italy

VOLUME II

Teaching, Learning, Evaluation and Technology

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the Journal Scuola
Democratica**
EDUCATION AND POST-DEMOCRACY

VOLUME II
**Teaching, Learning,
Evaluation and Technology**

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democratica international
Conference

**ASSOCIAZIONE "PER SCUOLA
DEMOCRATICA"**

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***Title* Proceedings of the First International Conference of the Journal "Scuola Democratica" - Education and Post-Democracy VOLUME II Teaching, Learning, Evaluation and Technology**

This volume contains papers presented in the First International Conference of the Journal "Scuola Democratica" which took place at the University of Cagliari on 5-8 June 2019. The aim of the Conference was to bring together researchers, decision makers and educators from all around the world to investigate the concepts of "education" in a "post-democracy" era, the latter being a set of conditions under which scholars are called to face and counteract new forms of authoritarian democracy.

Populisms, racisms, discriminations and nationalisms have burst and spread on the international scene, translated and mobilized by sovereigntist political movements. Nourished by neo-liberalism and inflated by technocratic systems of governance these regressive forms of post-democracy are shaping historical challenges to the realms of education and culture: it is on this ground, and not only on the political and economic spheres, that decisive issues are at stake. These challenges are both tangible and intangible, and call into question the modern ideas of justice, equality and democracy, throughout four key dimensions of the educational function, all of which intersected by antinomies and uncertainties: ethical-political socialization, differences, inclusion, innovation.

The Conference has been an opportunity to present and discuss empirical and theoretical works from a variety of disciplines and fields covering education and thus promoting a trans- and inter-disciplinary discussion on urgent topics; to foster debates among experts and professionals; to diffuse research findings all over international scientific networks and practitioners' mainstreams; to launch further strategies and networking alliances on local, national and international scale; to provide a new space for debate and evidences to educational policies. In this framework, more than 600 participants, including academics, educators, university students, had the opportunity to engage in a productive and fruitful dialogue based on researches, analyses and critics, most of which have been published in this volume in their full version.

Premise

Since 1973, with Chile's Dictatorship as a neoliberal 'laboratory', it's more than 45 years that the Global Education Reform Movement has transformed educational systems all around the world through a discourse rooted on epistemic and ideological hegemonies. A new 'truth' of the homo economicus as able to rationally and freely pursue its interest as self-entrepreneur is relentlessly spreading: the Human Capital paradigm then connects individualistic choices and personal skills to impose diverse educational tracks through a Life-Long-Learning investment. Thus, the restructuring of the Education State, thanks to policies of privatization, competition and high stakes accountability, has implied a new ethics challenging social justice ideals.

The massification of educational systems in Europe and worldwide, together with the increasing demand for their democratization, have profoundly challenged traditional teaching models: the lecture, the magister teacher and the specific spatial-temporal devices aimed at disciplining students according to the needs of a Fordist capitalist society and to the reproduction of class inequalities. Starting particularly from the Fifties in schools, and more recently in higher education, new teaching-learning configurations have been explored and developed: situated and participatory didactics aimed at involving students in a reflexive relationship with knowledge and social reality; new ways of hybridizing formal and informal learning; new pedagogies exploiting the possibilities inscribed in new medias and digital technologies. These practices, sometimes radically, reverse theory and practices in order to develop student-centred learning processes. The thematic sessions within this stream explore the challenges, tensions, ambivalences and potentialities of pedagogies and didactics innovations involving school and university teachers, students, as well as their surrounding environments: the physical, architectural, material and technological spaces that constitute a crucial component of situated learning processes.

The relation between education systems and policy making changed in the last decades, consequently to three innovations sharing the common paradigm of evaluation, namely: the establishment of national/international large-scale testing, the diffusion of systems assessing schools' and the raising interest for efficacy and cost-effectiveness of education interventions. These innovations have been highly debated from different and controversial perspectives. The aim of the conference stream is to collect papers focused on actual uses of different forms evaluation, in order to overcome previous ideological oppositions, contributing to move the debate into a more pragmatic and fruitful phase.

Further issue: How is digital technology changing education? Online schools and classes are becoming widely available; backpack of many

high school and college students, instead of physical textbooks, are now carrying iPads and various forms of devices connected to online; teachers now have more ability to personalize lessons, instructions, and projects for each group or student; by using devices and programs to distribute classwork and assignments, they can even personalize lessons and focus on the work of each student; increased opportunities and constraints for students to collaborate together from a variety of places becomes possible; free online classes called "MOOC's" otherwise known as Massive Open Online Courses are becoming widely popular. Finally, a mounting set of variegated pressures to produce pedagogical innovation in teaching and learning is being addressed to teacher and school staffs. Even the governance of school system and school-daily life as a whole is undergoing a wide process of digitalization. But what does the increase in digital technology and approach mean for the current times? Although many advantages come with digitalized learning, there are also disadvantages that researchers, educators, academics and professionals are aware of, including and not limited to minimal to zero face-to-face interaction in the classroom and the lack of ability to work in person with study partners and teachers. Any conversation that does not include the potential dangers of the widespread use of technology would not be complete. Therefore, the stream focuses also on the interplay between learning theories and technologies. Both learning theories and tools are composed of multiple attributes, and they refer to many aspects and facets which render educational technology highly complex. Evolution in both theory and technology reflects no clear successive breaks or discrete developments, rather, waves of growth and accumulation. Evolutions in society and education have influenced the selection and use of learning theories and technologies; learning theories and technologies are situated in a somewhat vague conceptual field; learning theories and technologies are connected and intertwined by information processing and knowledge acquisition; educational technologies shifted learner support from program or instructor control toward more shared and learner control; and learning theories and findings represent a fuzzy mixture of principles and applications.

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CONTENTS

NEOLIBERALISM IN EDUCATION. THE CASE OF CHILE AND SOCIAL TRANSFORMATIONS OVER THE PAST 40 YEARS	5
MACIEL MORALES ACEITON	5
THREE PROPOSALS IN ADULT EDUCATION TO IMPROVE EMPLOYABILITY	11
EDUARDO BLANCO-GÓMEZ	11
RETHINKING ADULT EDUCATION: ACTORS AND DYNAMICS OF LIFELONG LEARNING POLICIES	16
GIUSEPPE LUCA DE LUCA PICIONE	16
NEOLIBERALISM, NEW PUBLIC MANAGEMENT: A CRISIS OF LEGITIMACY FOR ELEMENTARY SCHOOL LEADERS	21
CÉCILE ROAUX	21
DEPOLITICISING EDUCATIONAL CHOICE: HOMESCHOOLING AND VIRTUAL UNIVERSITIES IN ITALY	27
GIORGIO GIOVANELLI	27
LEONARDO PIROMALLI	27
UNIVERSITY ADMISSION AND SELECTION PROCESSES IN THE CONDITIONS OF THE HYPERMODERNITY: THE CASE OF FRENCH UNIVERSITIES	34
CHRISTELLE MANIFET	34
KNOWLEDGE DRIVEN SHARED SUSTAINABLE STRATEGIES FOR THE MEDITERRANEAN SEA, A CASE OF RESILIENCE IN A COLLECTIVE EDUCATIONAL PROCESS	40
MONICA CARIOLA	40
RE-ENCHANTMENT AND CARE POLICIES IN THE DIGITAL SOCIETY. A CRITICAL READING OF RESILIENCE BASED ON BERNARD STIEGLER'S PHILOSOPHY	45
CRISTINA COCCIMIGLIO	45
A PARTICIPATORY EXPLORATION OF THE RELATIONSHIP BETWEEN THE FOCUS ON ACADEMIC ACHIEVEMENT IN UK EDUCATION POLICY AND ADOLESCENTS' WELLBEING AND MENTAL HEALTH	50
DANILO DI EMIDIO	50
'RICILIENCE': THE RESILIENCE OF RICE. A DOCUMENTARY FILM TELLS THE CASE OF SOCIAL LEARNING THAT IS TRANSFORMING THE ITALIAN RICE SYSTEM	56
ELENA PAGLIARINO	56
ISABELLA MARIA ZOPPI	56
THE COMPLEX CHAINS OF EDUCATION INEQUALITIES IN ITALY. UNDERSTANDING INTERPLAYS BETWEEN ASCRIPTIVE AND SCHOOL-TRACKS FACTORS	62
ORAZIO GIANCOLA	62
LUCA SALMIERI	62
THE PEDAGOGICAL-POLITICAL INCOMMUNICABILITY IN THE TEACHERS AND EDUCATORS TRAINING: PERSPECTIVES AND STRATEGIES	70
GIUSEPPE ANNACONTINI	70
CONSCIENTIZATION AND COMPLEXITY AS KEYS TO UNDERSTANDING AND ANALYZING CONTEMPORARY SCHOOLS. CRITICAL ISSUES AND CONSCIENTIOUS INTAKES	75
ENRICO BOCCIOLESI	75

THE SKILL-ORIENTED APPROACH IN TEACHER TRAINING	80
SILVIA FIORETTI	80
RETHINKING INTERCULTURAL EDUCATION FOR A DEMOCRATIC SCHOOL. REFLECTIONS ON AN EMPIRICAL RESEARCH PROJECT	85
MASSIMILIANO FIORUCCI	85
LISA STILLO	85
EDUCATING THOUGHT. THE THEORY AND PRAXIS RELATIONSHIP WITHIN THE PARADIGM OF PROFESSIONAL REFLECTIVENESS	91
MARIA-CHIARA MICHELINI	91
THE FRAME AND THE HORIZON. PEDAGOGICAL THOUGHT AND THE TRAINING OF TEACHERS BETWEEN SUBORDINATION AND EMANCIPATION	96
LUCA ODINI	96
UNIVERSITIES AS ECONOMIC ACTORS IN THE KNOWLEDGE ECONOMY EDUCATIONAL MODELS AND INNOVATIVE TEACHING PRACTICES IN THE UNIVERSITY EXPERIENCE	100
FLORIANA FALCINELLI	106
CRISTINA SOFIA	106
MILENA CASSELLA	106
INTERCULTURAL LEARNING (DEVELOPMENT OF COMPETENCIES) BY STUDENTS OF THE FACULTY OF EDUCATION. USING THE EXAMPLE OF INTERCULTURAL ATTITUDES AND LEARNING PROCESSES IN TEACHER TRAINING IN ITALY	112
GERNOT HERZER	112
DORIS KOFLER	112
TOWARDS A COMMUNICATION MODEL FOR UNIVERSITY EDUCATION	120
BARBARA MAZZA	120
RENATO FONTANA	120
ELENA VALENTINI	120
ERIKA DE MARCHIS	120
NARRATIVE GUIDANCE AS A TOOL TO ENHANCE RESILIENCE OF STUDENTS	127
FEDERICO BATINI	127
MARCO BARTOLUCCI	127
EXPLORING THE EPISTEMOLOGY OF THE IMPLICIT CURRICULUM	134
VALERIA ANGELINI	134
MATTEO BIANCHINI	134
VALENTINA GIOVANNINI	134
SUSANNA CHIELLINI	134
RETHINKING WORK-RELATED LEARNING INTERNSHIP: STUDENT'S VOICE AND PERCEPTION	141
CINZIA ZADRA	141
SELF-TAUGHT IMPROVISERS: JAM SESSIONS AS RESISTANCE TO FORMAL JAZZ CURRICULUM	146
ANSELMO R. PAOLONE	146
THEATRE AS METAPHOR AND PERFORMATIVE LEARNING IN THE ACADEMIC SCENE	151
FRANCESCO CAPPÀ	151
DIGITAL HUMANITIES AND PEDAGOGY: A CASE STUDY	157
VALENTINA DORATO	157
THE KEYWORDS OF ACCREDITATION, FROM MINISTRY TO UNIVERSITIES	163

ANDREA LOMBARDINILO	163
FROM E-LEARNING PRACTICES TO THE POLITICAL CONDITIONS OF INDIVIDUALS: A CASE OF THE INTENSIVE SEMI-PRESENTIAL WEEK AT A TELEMATIC UNIVERSITY	168
FIORELLA VINCI	168
CONVERGENCE BETWEEN FORMAL AND INFORMAL LEARNING PRACTICES: STATE OF THE ART AND HISTORICAL HERITAGE	173
DONATELLA CAPALDI	173
ALESSIO CECCHERELLI	173
FROM PRACTICE TO LEARNING: COMPUTER SCIENCE THE OTHER WAY ROUND	179
STEFANO FEDERICI	179
ELISABETTA GOLA	179
CLAUDIA MEDAS	179
ANDREA ZUNCHEDDU	179
UP2UNIVERSITY: A EUROPEAN PROJECT TO INTEGRATE FORMAL AND INFORMAL LEARNING IN SECONDARY SCHOOLS	187
GABRIELLA PAOLINI	187
NADIA SANSONE	187
BUILDING A DEVICE FOR THE ALLIANCE BETWEEN FAMILIES, SCHOOLS AND LOCAL COMMUNITY TO FACE EARLY SCHOOL LEAVING. ATOMS&CO INTERNATIONAL PROJECT	192
ALESSANDRO TOLOMELLI	192
FULVIA ANTONELLI	192
PROXIMITY AND SHARED GOVERNANCE? OBSTACLES AND ORGANISATIONAL TENSIONS IN YG PROGRAM IN PORTUGAL	198
TATIANA FERREIRA	198
LIA PAPPÁMIKAIL	198
MARIA MANUEL VIEIRA	198
THE MISERY AND SPLENDOUR OF THE REPUTATIONAL EVALUATION. TEACHER CREDIBILITY BETWEEN REPUTATIONAL EVALUATION AND FUNCTIONAL ILLITERACY OF CITIZENS.	204
RITA TEGON	204
(RE)DISCOVERING NON-FORMAL EDUCATION. THE CONTRIBUTION OF THE EUROPEAN YOUTH PROGRAMMES	210
NADIA CRESCENZO	210
TRAINING AND EDUCATION WITH ROBOTS IN HEALTHCARE AND MORAL ISSUES	216
MAURIZIO BALISTRERI	216
CRITICAL THINKING AND CAPABILITY APPROACH TO FACE A DIGITAL ORIENTED FUTURE	221
MARIA CATERINA DE BLASIS	221
YOUNG ITALIANS BETWEEN CYBERBULLYING AND HATE SPEECH. A FOCUS ON DIGITAL COMMUNICATION PRACTICES	227
ALESSANDRO LOVARI	227
ROSSELLA REGA	227
MEDIA EDUCATION. TEENS' VOICES AND PERSPECTIVES FOR DIFFERENT MEDIA- EDUCATIVE ACTIONS	234
COSIMO MARCO SCARCELLI	234

RETHINKING HUMAN BODY BETWEEN LAY AND EXPERT KNOWLEDGE SUGGESTED BY SELF-TRACKING TECHNOLOGIES	240
LETIZIA ZAMPINO	240
<hr/>	
FOLLOW THE OBJECT. A BIOGRAPHICAL APPROACH TO THE STUDY OF DIGITAL DEVICES IN THE GOVERNING OF EDUCATION	245
CATARINA GONÇALVES	245
MARCO ROMITO	245
ANTONIETTA DE FEO	245
<hr/>	
ONLINE ACTIVITIES: FROM SOCIAL INEQUALITIES TO DIGITAL INEQUALITIES AND COMEBACK	251
RITA FORNARI	251
<hr/>	
THE PLATFORMISATION OF HIGHER EDUCATION IN ITALY: THREE CASE STUDIES AND A RESEARCH AGENDA	258
LEONARDO PIROMALLI	258
ASSUNTA VITERITTI	258
<hr/>	
DIGITAL SOFT SKILLS AND TEACHING. MACRO DATA ANALYSIS OF SCHOOL SURVEY	265
IDA CORTONI	265
<hr/>	
THE SHIFT FROM PAPER-BASED TEST TO COMPUTER-BASED TEST IN ITALIAN NATIONAL ASSESSMENT: THE INVALSI CASE.	271
MARIALUISA VILLANI	271

Convergence between Formal and Informal Learning Practices: State of the Art and Historical Heritage

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Keywords: *Activism, Experience, Informal learning, Transversal Skills, Third Mission*

Introduction

For a long time, Informal learning suffered a mechanical and simplified definition, as a category opposed to formal learning: it was in fact intended at a space-time level, as a complex of outdoor activities, carried out outside school walls, and outside a certifiable path.

If in the field of vocational training validation systems have been arranged at European level by CEDEFOP (2017) to test and to certificate skills and abilities acquired through individual experience, however, many third sector initiatives, volunteering, personal interests and creative activities usually are more problematic in being identified and formally attested, and require a substantial change of didactics and educational perspectives. In any case a step change is in progress at the moment: recognizing the informal learning formative basis means, in fact, becoming aware of the profound changes technologies have introduced in the educational world, to the point of blurring the borders between informal and non-formal (the structured but not certified) learning paths, and more generally between formal and informal ones.

1. Creating a bridge between formal-informal learning: technology, media and learning activities

In 1960 Marshall McLuhan already theorized the radical learning system transformation triggered by communication media: in *Report on Project in Understanding New Media*, commissioned by the Office of Education, USA, - the first draft of his famous *Understanding Media*, 1964 - he indicated how the media environment - in particular TV - shapes our sensory system, overheating senses, such as hearing and touch, and changing perceptive capacity and living environment. For young people, trained by the new electric media, from cinema to television, a fragmented, mosaic-like perception is 'normal', and no longer the logical-sequential Gutenberg vision of the medium 'book'. Therefore, it is not possible to set the didactics still looking from the rear-view mirror of the old media: «Until we have mastered the multiple grammars of the new non-written media, we shall have no curriculum relevant to the new languages of knowledge and communication which have come into existence in the new media. These new languages are known to most people, but their grammars are not known at all. We have 'read' these new languages in the light of the old. The result has been distortion of their character and blindness to their meaning and effects» (McLuhan, 1960: 1-2).

It is necessary to include the media grammar and language in learning to understand how they work. In *City as Classroom* (1977). McLuhan theorizes the overcoming demarcation between the space-school and the so-called 'external' space, now interacting and integrated in a unique learning environment. He anticipates the wide educational horizons unfolding through the telematics advent, focusing on a productive learning flexibility that overlaps with formal education.

1.1 *Informal learning and transversal skills*

Following McLuhan, not only does technology involves the need of mastering the software and ICT tools up to programming competences, but also implies the capacity of understanding the media language variety, their communication mechanisms, how to re-use them creatively to produce new objects (Bolter, Grusin, 1999). Even when limiting the meaning of informal learning as self-directed, incidental, tacit and deliberative (Eraut, 2004; Schugurensky, 2000) it is crucial to consider how informal digital practices enable those transversal skills to be the training basis, even when in an unorganized manner: the media and information literacy skills (content critical selection to work on media languages); the cognitive skills (problem solving, critical thinking and autonomous learning); and the psychosocial/soft skills (teamwork, objective definition and achievement, ability of listening and self-ruling).

This progressive welding between formal and informal learning over the last decade has opened up new horizons for a hybrid system. Going through the official documents, we notice interesting shifts in the informal learning definition. In 2010 the Council of Europe codified the informal learning according to the daily environment of experiential activities performed by «family, peer group, neighbours, encounters, library, mass media, online media, work, play» (2010: 6-7). In 2011, UNESCO (2012) links this environment to the interests expressed both in individual and group dynamics: on a self-directed, family-directed or socially-directed basis. The latest *EU Council Recommendation* insists on the informal learning relevance for transversal skills acquisition «in supporting the development of essential interpersonal, communicative and cognitive skills such as: critical thinking, analytical skills, creativity, problem solving and resilience that facilitate young people's transition to adulthood, active citizenship and working life» (EU, 2018: 3).

These definitions involve two important emphases regarding informal learning role. First of all, active citizenship, planning in the third sector, and constructive exchange between different cultures play a central role in addition to personal interests; a perspective confirmed by the Council of Europe (2018), fostering the citizen formation and the defence of the democratic institutions foundations. Secondly, informal learning may become the opportunity to exercise soft skills, increasingly required even at the entrepreneurial level: since 2010 and in projection up to 2022, the World Economic Forum (2018: 12) has seen the growth of some soft skills in the Top Ten Skills list required by the labour market (as active learning and learning strategies, originality, initiative, leadership and social influence). In addition, informal experience may support the eight basic learning pillars of Lifelong Education (EU, 2018): alongside literacy, multilingual, digital and mathematical, engineering and science competences, personal, social competence and learning to learn competence, citizenship and entrepreneurship competence, cultural awareness and expression competence are particularly underpinned.

1.2 *Matching formal and informal learning*

Formal learning might incorporate the informal one according to a double movement: on the one hand, through a process of informal activities integration

(inclusion learning), which may become foundations for learning communities in the classroom and in networked communities of practice, starting from individual and/or group experiences. On the other hand, through processes of 'exit' from the formal (performing learning) to adhere to social commitment informal projects, such as the territory care, the intervention in degraded environments and all activities of mending the social fabric: common and bottom up projects are to be enhanced through involving the neighbourhood in order to smooth out cohabitation and exclusion conflicts. It is a sort of integrative learning (Bennet, 2012) expanding in the territorial reality and supporting the artistic inclinations.

How to create a formal-informal convergence, giving life to a networking learning? First of all, through learner-centred didactics, encouraging a project-based learning and supporting a community collaborative construction of knowledge objects. Moreover, through a learning practice implementing transversal skills according to digital and multidisciplinary paths for understanding and rebuilding the social tissue.

At this point other questions arise: *when* a contrast between formal and informal learning has actually occurred? And *which* innovative theories and experiences have tried connecting the two learning systems along the twentieth century?

2. Archaeology of the formal-informal dichotomy

The contrast between form and life is the basis of modern education evolution since Rousseau, who in the same year, 1762, published two fundamental books from an educational viewpoint: *Le contrat social* on the respect for norms and civic forms, and *Émile* on the life experiences and inclinations. The work of rationalisation and knowledge transmission, which the school includes among its primary missions, requires an inevitable distance from the 'real' world: the school becomes a place of knowledge 'secondaryisation', and so, of formalization (Damiano, 2013). In the long run, however, this distance tends to undermine the relationship between the individual and the knowledge objects, making the school often scarcely attractive. Regulating this distance in a different way is precisely the strategy activists of the first half of the twentieth-century recommend, starting from experience, from the action on reality: what begins in the limited space of class, through experiments and practices, necessarily ends with questioning the entire organizational structure, and the differences between the two learning approaches.

Many authors have contributed over the years to the curriculum reformulation, probably the most stringent constraint for active practices implementation and dissemination. The didactics inspired by Piaget, for example, based on intellectual research, and implemented above all by Hans Aebli in the Sixties and Seventies, requires an organisational reformulation, because the curriculum should be reduced to some essential subjects, an adequate equipment should be requested and freedom of teaching should be guaranteed. Moreover, this discourse is taken up by Morin according to the seven knowledges necessary for the education of the future (1999), moving towards the metacognitive, holistic, ecological and ethical dimensions.

Greater institutional freedom and lesser presence of curricular limitations have facilitated methodological experimentation in educational contexts such as kindergartens, holiday centres and full-time organisations, providing many concrete examples. The active method experiences are impressive from this point of view, serving as a model for further practices and offering some ideas for

today's debate (Bottero, 2014). They also tried profitably to bridge the gap between form and life, between obligations and freedom of action.

2.1. *The 20th Century towards a formal-informal learning convergence*

Maria Montessori has founded a pedagogical and didactic method still used today in many schools. She introduced on the one hand 'practical life exercises', and on the other one she modified the traditional school setting by adapting educational spaces to childhood needs.

After cooperating with Montessori, Helen Parkhurst extends her action plan, the so-called Dalton plan. In this case the concept of individualisation plays a crucial role: once fixed an initial commitment through a monthly contract (formal dimension), the pupil is free to organize his study time and modality (informal dimension).

For Ovide Decroly, education arises from the student's needs and previous knowledge. He replaces subjects with pivot ideas, centres of interest developed on three levels (observation, association, expression) and addressed through expressive and performing activities. Teacher does not plan activities but directs and advises the students during the observations.

In Roger Cousinet's *free-group work method*, students become free to select one of the activities prepared by the teacher and to carry it out for as long as they consider necessary. The teacher organises the learning environment and tools. The activities are divided into 'creative works' (manual and artistic activities) and 'knowledge works' (science, history, geography, arithmetic). All activities are based on real needs, which may arise from other executed works. There are no easy or difficult activities, but activities being of interest (and therefore increasing the internal motivation) or of no interest.

William H. Kilpatrick's *project method* extends the field of action compared to Dewey, who only focuses on the development of thinking. Teaching activity always starts from interest and takes the form of a 'project'. Hence the rejection of the rigid didactic organisation by study subjects. A teacher could gradually transform the traditional classroom activities in project works, reserving at least half an hour a day to free work and keeping some activities out of the program. The attempt at balancing formal and informal experience is evident.

For Carleton W. Washburne, another Dewey school exponent, student requirements and interests must be taken into account too, but without forgetting social needs. With the Winnetka schools he divides the curriculum into *ad hoc* projects and developing programs. The former supports common activities programmed for learning essential knowledge and skills and based on the student's previous knowledge and willingness to learn that content. The latter encourages elective activities going beyond personal interests and attitudes and fostering social cooperation and free expression. The choice of elective activities is free, but in any case, they are included in the curriculum (Electives are not Extras). The overall framework is not unitary, with a clear separation between intellectual skills curriculum (individualized and evaluated), and the curriculum for creative and practical skills development (learning from experience, not evaluated). The incompatibility between formal and informal is declined under another formula: the dichotomy control/freedom.

Celestin Freinet's techniques are very significant and still relevant. He does not create opposition between play and work: *work-play* (a series of activities showing a definite aim and tending towards specific, but not constricting results) gradually replaces *play-work* (more suited to vital and social needs). He starts from the educational setting and tools reorganization, giving more space to the laboratory, with indoor and outdoor activities. The teacher is a consultant and facilitator, building an annual didactic plan on which he elaborates individualized

weekly plans. Each pupil has got a wide choice (informal dimension) within the annual plan constraints (formal dimension) and undertakes to carry out the activities on time.

The author cited more than others as methodological inspiration is David Kolb, who has in Jean Piaget, John Dewey and Kurt Lewin his declared theoretical models of reference. A broad set of techniques and methodologies, especially for vocational training, make more or less explicit reference to experiential learning (Kolb, 1984).

More recent is the system of laboratories proposed by Francesco De Bartolomeis, inspired by Dewey's pragmatism. The school should be organized as a laboratory structure through planned use of external social spaces, with the perspective of an integrated training system together with the school spaces. The rigid subjects succession is eliminated, but not the frontal activities, favouring discussion and research, both guided and autonomous, and giving maximum flexibility in the use of the space-time setting and in collaborative activities.

Conclusions

The active method models indicate scenarios of convergent didactic practices going towards the dialogue between school and extra-school reality, in methodological and organizational terms, on a double level, *micro* (in the classroom) and *meso* (in the school). Dialogue also means mutual contamination. These are two extremes that must meet: on the one hand, the formal learning gives shape to the informal one, setting the formal perimeter within which the informal skills develop; on the other hand, the formal learning becomes a form from the informal one, requiring a rethinking of the organizational and evaluative structure.

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