

Research Dialogue between Materials and Products in Architecture

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The materials life cycle consists of several phases. If application areas are targeted for architecture, comprehending the demands of the end-use phase might not be clear at the research and development phase, leading to an entity appearing fragmented. The aim of this study is to help bring order to the material research or development phases. The objective is to generate a review tool, which helps to observe different areas where architecture operates, and contemplate simultaneously the aspects during the different phases of the material development. The review tool of the material life cycle consists of tracking the raw materials until the re-used raw material, resulting in eight different stages of the material life cycle. In addition, each of the eight stages of the material life cycle is possible to observe with the five different viewpoints, which are present in architecture. These eight material life cycle stages and five aspects have been formulated as a chart. The chart consists of 40 different approaches facilitating discussion between different operators during the different phases of the material development. The chart might help set goals, frame areas, and improve comprehension of the research and development processes of the materials, especially when interdisciplinarity is involved in the research process.

Keywords: architecture, interdisciplinarity, materials development, materials life cycle, materials research.

In architecture, construction materials have certain characteristics and aspects to fulfil depending on where and how they are applied. Traditionally, practitioners have obtained an intrinsic understanding of the materials by gathering knowledge when interacting with the materials on a practical level. Professionals, who are specialised in understanding the role of materials or methods in constructing, such as construction workers, craftspeople, builders, and architects, must understand the relatively simple processes involved therein. Due to this basic understanding, the communication between professionals is effortless because the targets are easy to discuss; the concepts are clear; and the materials or processes are well known. Though, when new technologies or materials are intended to be applied in the construction industry, special expertise is required (Gieseckam et al 2016).

In architecture, materials are not just thought to constitute the protective shells, carry loads, or divide spaces. The material palette utilised in architecture is in general extremely versatile. Different materials must play well together leading to a meaningful and pleasant spatial experience, noting the function of the building, demands of the user, cultural aspects of the context, and overall cost of the constructing. Without a holistic perspective, the outcomes might be very practical or technically competent, but they may not necessarily be easy to implement in a living environment, where various aspects are meaningful.

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Abstract

Introduction



Interface Between Research And Dialogue

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Interface Between Research And Dialogue:

The Interface Between Research and Dialogue International Association for the History of Religions. Congress, 2004 In Africa as elsewhere many scholars of religion are both involved in the study of religions and engaged in the field of dialogue But how about the relationship between these two domains Does the engagement in dialogue illegitimately interfere with the commitment to sound research Should the study of religions be bound to a scientific ethos which furthers the principle of dialogue or would this turn Religious Studies into an ideological endeavour Is dialogue possibly a crucial aspect of a future History of Religions especially in the context of Christian Muslim relations in Africa

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Scientific and Technical Aerospace Reports ,1984-04

The Sage Encyclopedia of Qualitative Research Methods: A-L ; Vol. 2, M-Z Index Lisa M. Given, 2008-08-21 An encyclopedia about various methods of qualitative research

Agricultural Research and Extension Interface in Asia ,1999

Handbook of Research on User Interface Design and Evaluation for Mobile Technology ,2008 This book provides students researchers educators and practitioners with a compendium of research on the key issues surrounding the design and evaluation of mobile user interfaces such as the physical environment and social context in which a device is being used and the impact of multitasking behavior typically exhibited by mobile device users Provided by publisher

The Complexity of Relationships in Action Research Ben Boog, 1998 The relationship between researchers and research is of great importance to action researchers It is usually characterized as dialogical recognizing the competencies of both groups of actors involved But in theory as well as in practice it appears to be a very complex issue The aim of this third book of the Dutch Action Research Network is to discuss a number of aspects related to that complexity A great mixture of experiences new insights concepts and methodological devices is presented In the last part of this book a number of methodological issues are analyzed The book ends with some general conclusions about the strategic role of

adequate relationships in action research INTERCHI ... Conference Proceedings ,1993 *Design of Computing Systems: Social and ergonomic considerations* Michael James Smith,Gavriel Salvendy,Richard J. Koubek,1997 *Muslim-Christian Encounters in Africa* Benjamin F. Soares,2006 This engaging collection of essays offers new insights into the multi faceted and changing encounters of Muslims and Christians in Africa in the past and closer to the present **Research Report, Publication List** Massachusetts Institute of Technology. Center for International Studies,1966 ECAI 88 Bernd Radig,1988 **Second Annual Phoenix Conference on Computers and Communications** ,1983 **Proceedings** ,2000 Annual Report United Nations University,2001 **On Man-computer Interaction in Organizational Decision-making; a Behavioral Approach** Bo Hedberg,1970 **Academy of Management Journal** Academy of Management,1963 Focus on management theory and practice Index of Conference Proceedings ,1990 Literacy Research, Theory, and Practice Charles K. Kinzer,Donald J. Leu,1992 **Science Education International** ,1995

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