

# 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

**Lingsheng Yao**



## **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

**Joining the Dialogue: Practices for Ethical Research Writing** Bettina Stumm, 2021-07-08 Joining the Dialogue offers an exciting new approach for teaching academic research writing to introductory students by drawing on communication ethics Holding to the current view that academic writing means situating ourselves in a research community and learning how to join the research conversations going on around us Joining the Dialogue proposes that how we engage in dialogue with other researchers in our community matters We not only read acknowledge and build on the research of others as we compose our work we also engage openly attentively critically and responsively to their ideas as we articulate our own With this in mind Joining the Dialogue is geared to helping students discover the key ethical practices of dialogue receptivity and response ability as they join a research conversation It also helps students master the dialogic structure of research essays as they write in and for their academic communities Combining an ethical approach with accessible prose dialogic structures and templates practical exercises and ample illustrations from across the disciplines Joining the Dialogue teaches students not only how to write research essays but also how to write those essays ethically as a dialogue with other researchers and readers

**Scientific and Technical Aerospace Reports**, 1984-04 *The SAGE Handbook of Research on Teacher Education* D. Jean Clandinin, Jukka Husu, 2017-06-14 The SAGE Handbook of Research on Teacher Education offers an ambitious and international overview of the current landscape of teacher education research as well as the imagined futures The two volumes are divided into sub sections Section One Mapping the Landscape of Teacher Education Section Two Learning Teacher Identity in Teacher Education Section Three Learning Teacher Agency in Teacher Education Section Four Learning Moral Ethical Responsibilities of Teaching in Teacher Education Section Five Learning to Negotiate Social Political and Cultural Responsibilities of Teaching in Teacher Education Section Six Learning through Pedagogies in Teacher Education Section Seven Learning the Contents of Teaching in Teacher Education Section Eight Learning Professional Competencies in Teacher Education and throughout the Career Section Nine Learning with and from Assessments in Teacher Education Section Ten The Education and Learning of Teacher Educators Section Eleven The Evolving Social and Political Contexts of Teacher Education Section Twelve A Reflective Turn This handbook is a landmark collection for all those interested in current research in teacher education and the possibilities for how research can influence future teacher education practices

and policies     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     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     *Agricultural Research and Extension Interface in Asia* ,1999

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**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     *INTERCHI ... Conference Proceedings* ,1993     *On Man-computer Interaction in Organizational Decision-making; a Behavioral Approach* Bo Hedberg,1970     **ICSLP 92 Proceedings** ,1992     **ECAI 88** Bernd Radig,1988     Human Factors in Computing Systems ,1994     **Second Annual Phoenix Conference on Computers and Communications** ,1983     **Annual Report** United Nations University,2001

*Academy of Management Journal* Academy of Management,1963 Focus on management theory and practice     Index of Conference Proceedings ,1990

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