

# 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 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      **Scientific and Technical Aerospace Reports** ,1984-04

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This collection examines practical and ethical issues inherent in the application of oral history and memory studies to research about the Soviet Union and Eastern Europe since the collapse of the Soviet bloc Case studies highlight the importance of ethical good practice including the reflexive interrogation of the interviewer and researcher and aspects of gender and national identity Researchers use oral history to analyze present day recollections of the Soviet past thereby extending our understanding beyond archival records official rhetoric and popular mythology Oral history explores individual life stories but this has sometimes resulted in rather incomplete incoherent inconsistent or illogical narratives Oral history therefore presents the researcher with a number of methodological and ethical dilemmas including the interpretation of silence in biographical accounts This collection links the discussion of oral history ethics with that of memory studies Memories are shaped by factors that may be simultaneously both consecutive and disrupted In written accounts and responses to interview questions respondents sometimes display nostalgia for the Soviet past or conversely may seek to de-mythologize the realities of Soviet rule Case studies explore what to do when interview subjects and memoirists consciously sub consciously or unconsciously forget aspects of their own past or themselves seek to take control of the research process

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**Transactions of the American Philological Association** American Philological Association,1879

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**Transactions and Proceedings of the American Philological Association** American Philological Association,1878 Beginning with v 31 the proceedings and papers of the Philological association of the Pacific coast are included

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