Table of Content

Mamuli Grdzelishvili, Alex Kopaliani, Ramaz Museridze. **The Impact of Humidity on Thermal Protection of Enclosing Structures**..... 4

Ana Ratiani, Nugzar Khvedeliani **From Colchis to the Amazon: A Synthesis of Kolkhian and Amazonian Eco-Engineering for National Parks in Western Georgia** …… 9

Natia Koiava. **The Impact of Globalization on the Local Identity of Multifunctional Centers: Shopping Malls**..... 14

Nina Areshidze, Badri Churchelauri, Diana Tevzadze, Eliko Kobauri, **Asphalt Concrete Preparation and Placement Monitoring**..... 18

Guram Svanadze. The Role of Timber in Sustainable Architecture..... 22

Demur Tabatadze, Aleksandre Buachidze, Mikheil Robakidze. **Optimal design of prefabricated structure of cylindrical stell ceiled with semispherical dome** 27

Lasha Kavelashvili. **Innovative Operating Methodology for Continuous Water Supply in Georgian Regions: Digital Twins and IoT Integration** 34

Nino Imnadze, levan Asabashvili. **Development of Anti-Modernist Ideas in Western Europe: An Overview** 39

Giorgi Lutidze, Konstantine Iashvili. **Seismic risk assessment earthquake resistant construction** 52

Merab Baratashvili, Tornike Baratashvil **Energy-Efficiet Balcony-Wall Connection Through a Novel Thermal Break Block Incorporating Recycled Plastic Waste** 58

Malkhaz Turdzeladze, Eliko Kobauri. **Genesis and structure of natural zeolites and clay rocks** ... 62

Tengiz Gogelia. **Harmonization of Georgian Engineering Education and Technical Regulations with EU Standards** 68

Nino Mskhiladze, Giorgi Batsikadze. Use of Brick Waste in the Production of Energy-Efficient Lightweight Concrete 77

Maia Davitaia, Nino Barnabishvili, **Architectural and Artistic Features of the House of Culture in the Village of Shroma** 82

Beka Khetsuriani, Otar Abashidze. **Primary Causes of Aging of Bitumen Used in Asphalt Concrete and Methods of Rejuvenation** 87

Nina Areshidze, Diana Tevzadze, Badri Churchelauri, Giorgi Lutidze. **Residential Ventilation** 92