

LECTURE SERIES Winter Semester 2025

CLIMATE PROTECTION

Universität Innsbruck, Audimax, Agnes Heller Haus

Mittwoch 10.12.2025; 15:30 -17:30 CET

Harald Konrad Malzer, Ganbaa Nyamaa, Amarbayar Adiyabat



Айсан бол бүү эхл, нэгэнт эхэлсэн бол бүү ай

(altes mongolisches Sprichwort)

‘The land of blue skies’ and toughest passive house builders

A story about the attempt to tackle the climate crisis in one of the harshest climatic regions on Earth.

- ☯ a brief glimpse into a forgotten corner of the world – Mongolia – but only for Europeans! The claws of the ‘bear’ and the teeth of the ‘dragon’ have long been sinking into the flesh of the last nomadic culture on earth.
- ☯ about extremely committed people, who want to change their country for the better and make it a place worth living in for their children and their unique, nomadic culture.
- ☯ about many passive house (flagship) projects – spread across the country, from Ulaanbaatar in the north to the Gobi in the south – which tell of how difficult it is to build truly energy-efficient buildings in Mongolia's extreme climate zones.
- ☯ last but not least, about a very challenging passive house project – only be found using geo coordinates (48.2609, 100.3796) – and its potential to change quite a few things in education and the rural regions of Mongolia (... if we actually succeed in building Mongolia's first certified passive house!?).

„Das Land des blauen Himmels“ und der taffsten Passivhausbauer

Eine Geschichte über den Versuch, der Klimakrise in einer der klimatisch härtesten Regionen der Erde erfolgreich zu begegnen.

- ☯ ein kurzer Einblick in eine vergessene Ecke der Welt – die Mongolei – aber nur für uns Europäer! Den die Klauen des „Bärs“ und die Zähne des „Drachens“ dringen bereits seit langem ins Fleisch der letzten Nomadenkultur dieser Erde.

- ☞ über extrem engagierte Menschen, die ihr Land positiv verändern und für ihre Kinder und einzigartige, nomadische Kultur weiterhin dauerhaft lebenswert machen wollen.
 - ☞ über viele Passivhaus (Leuchtturm-) Projekte - verteilt im ganzen Land, von Ulaanbaatar im Norden bis in die Gobi im Süden - die davon erzählen, wie schwierig es in den unterschiedlichen und extremen Klimazonen der Mongolei ist, wirklich energieeffizient zu bauen.
 - ☞ über ein sehr herausforderndes Passivhausprojekt - nur durch Geokoordinaten (48.2609, 100.3796) zu finden, das einiges im Bereich Bildung und in den ländlichen Regionen der Mongolei verändern könnte (... wenn uns das erste zertifizierte Passivhaus der Mongolei tatsächlich gelingt!?).
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Harald Konrad Malzer (live speaker)

Infected by Prof. Dr. Feist and now committed to “built climate protection” for 20 years. R&D in the field of energy efficiency and sustainability at UIBK and PHI and then putting it all into practice at NHT. High economic energy efficiency and willingness to innovate, combined with social responsibility, are the keys to a climate-friendly built environment. Together with his colleagues at his company NEUE HEIMAT TIROL, he acts like an engine of the energy transition in social housing - From research to implementation!



Ganbaa Nyamaa (co-responsible)

is a Certified Passive House Consultant, Green Building Expert, EDGE Expert and Low carbon solution provider. Ganbaa's primary areas of expertise are in efficient buildings, low carbon buildings and renewable energy, both large and small scale. His professional and academic experience ranges from consultancy, engineering and development. Ganbaa's main goal is to help organizations adopt and deliver low carbon solutions, particularly energy efficiency measures. His specialties are low carbon construction, Passive house, green building, energy efficiency, low carbon technologies, PV, and off-grid solutions in extreme climate zones.



Amarbayar Adiyabat (co-responsible)

is an associate professor at the School of Engineering and Technology, National University of Mongolia (NUM). He received his PhD in Electrical and Electronics Engineering from the Tokyo University of Agriculture and Technology, Japan, in 2006. His current research interests include solar energy, photovoltaic systems, smart-grid, mini-grid, energy-related air pollution, heat transfer, energy efficiency and saving, passive house, and sustainable development pathways. He is a Passive House Consultant/Designer (Certified by International Organization: Passive House Institute).