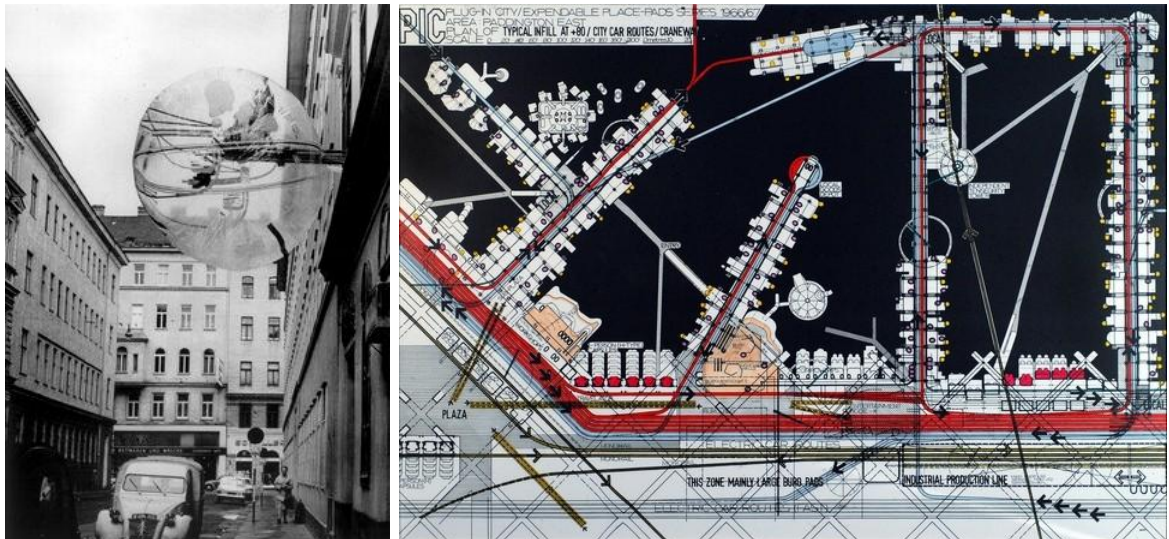**建筑学学科前沿动态：建成环境历史与理论**

主持人：谭峥、江嘉玮

Frontier of Architecture: History and Theory of Built Environment

Tutor: TAN Zheng, JIANG Jiawei

上课时间：每周二晚 18：30PM

线下地点：钟庭报告厅（Bell Hall）

[Introduction]

[If] the hardware could stand up by itself without any assistance from the house, why have a house to hold it up?"

Reyner Banham, *A House is not a Home.*

Technologies in the built environment constitutes the foundation of contemporary humanity. They are self-standing hardware and provide life-supporting functions to everyday life. Since the end of the first Industrial Revolution, the utilization of these services and infrastructures has not only notably facilitated production efficiency but also accelerated urbanization.

It was not until the end of the First World War that the issue of environment was made into a main public concern. The emerging prosperous world of mechanically controlled environment has changed the way how the human bodies to experience speed, motion, heat, light, and comfort as a whole. This course, through retrospective study of the dilemma brought by the interconnection between machine-environment, looks into new possibilities of reconciling such conflicting issues as well as potentials towards a well-tempered architecture that reflects on both environmental meaning of architecture, and architecture's disciplinary future.

建成环境技术系统构成了现代社会的特殊基础设施。它们也是独立的硬件系统，支持着日常生活的运行。自从第一次工业革命结束时开始，机器的逐步广泛应用不仅极大地提高了生产效率，而且加速了城市化。

直到第一次世界大战结束，环境议题才被人们纳入为一个重要的公共议题。涌现的机器化环境改变了身体体验速度、运动、热量与舒适的方式。这门课通过对"机器-环境"的互相牵连进行回溯式的研究，寻找调和这些矛盾因素之间的新可能，以及研讨一种能够深入反思机器与环境的适应式建筑学。在这个过程中我们可以反思建筑的环境意义与学科未来。

This course will be given in a series of lectures. For the assignment, students are supposed to work as teams. Each team are obliged to give three presentations (proposal midterm and final) and submit a 4*N (N=Number of Members) page folded booklet (A4 size, in PDF format), or an equivalent presentation (only for cross-disciplinary students) based on relevant research topics. The topic of the booklet should be closely related to the lecture series.

本课程将以系列讲座的形式授课。学生必须做两次书面及口头报告(期中和期末，检查形式待定)，作业要求**就学期内涉及的讲座主题进行专题研究**，提交一份 4*N(N=组人数)页的报告或同等的 powerpoint 报告（仅仅适用于非建规-设计类的跨专业同学）。

[Keywords]

Built Environment; Mechanization; Urbanization; Service System; Critical Theory; Modernity

建成环境；机械化；城市化；服务系统；批判理论；现代性

[Syllabus]

(Since the arrangement of the lectures is subject to our guest speakers' instant schedules, the sequence of the invited lectures is difficult to be fixed in advance. The following schedule provides the supposed guest speakers and their tentative

topics, while not finalized yet.)

（由于本课程特邀讲座的顺序难以全部提前确定。以下为暂定的特邀演讲嘉宾及演讲话题。）

Week 1   (Sept 16)
- Course Introduction and Special Lecture "Technological History of Built Environment: A Perspective from Architectural Elements"
  Speaker: TAN Zheng

第一周
- 课程导论与讲座"从建筑元素观察建成环境的技术史"
  授课人：谭峥

Week 2   (Sept 23)
  Tracks and Cars (I): Modes of Transport in the Expansion of Modern Cities
  Speaker: JIANG Jiawei

第二周
  轨道与汽车（一）：现代城市扩张的交通模式
  授课人：江嘉玮

Week 3   (Sept 28)
- How to expand your discipline in transformative times?
  Speaker: Ole Bouman

第三周
- 变化的时代如何拓展学科?
  授课人：奥雷·布曼

Week 4   (Sept 30)
  Tracks and Cars (II): Land Subdivision and Centralization in Road Networks
  Speaker: JIANG Jiawei

第四周
  轨道与汽车（二）：路网中的土地细分与土地集中
  授课人：江嘉玮

Week 5   (Oct 14)
- Proposal Review
第七周
- 研究计划考察
  授课人：谭峥

Week 6   (Oct 21)

- A Cybernetic View of Body-Architecture: From Fun Palace/SEEK to the Contemporary Adaptive Environment and its Paradox
  Speaker: YAN Chao

第六周
- 身体建筑学的控制论视角：从欢乐宫到当代的适应式环境及其悖论
  授课人：闫超

Week 7　(Oct 28)
- Post-metropolis and Planetary Urbanization（I）
  Speaker: TAN Zheng

第七周
- 后都市与星球城市化（I）
  演讲人：谭峥

Week 8　(Nov 4)
- Midterm review of students' assignments

第八周
- 学生作业中期汇报
  授课人：谭峥

Week 9　(Nov 11)
- Ruins
  Speaker: MO Wanli

第十周
- 废墟
  授课人：莫万莉

Week 10　(Nov 18)
- Sustainable Regeneration in Historical Buildings
  Speaker: ZHAO Mosha

第十周
- 历史建筑的节能保护
  授课人：赵沫沙

Week 11　(Nov 25)
- AI - Digital - AI
Speaker: ZHOU Jianjia

第十二周
- 人工智能－数字-人工智能
授课人：谭峥、周渐佳

Week 12　(Dec 2)
- Tracks and Cars (III): Housings and Transportation Connectivity

Speaker: JIANG Jiawei

第十二周

● 轨道与汽车（三）：住房与交通连接
授课人：江嘉玮

Week 13　(Dec 9)

● The Dungeon of Modernity: Underground Infrastructure
Speaker：TAN Zheng

第十三周

● 现代化的地宫：地下基础设施
授课人：谭峥

Week 14　(Dec 16)

● Post-metropolis and Planetary Urbanization（II）
Speaker: TAN Zheng

第十六周

● 后都市与星球城市化（二）
授课人：谭峥

Week 15　(Dec 23)

● Guest Lecture(TBA)

第十五周

● 客座讲座
演讲人：谭峥+Guest

Week 16　(Dec 16)

● Final review of students' assignments

第十六周

● 期终作业汇报
授课人：谭峥

[Bibliography]

1. Banham, Reyner. *The Architecture of the Well-tempered Environment* [M]. 2nd Edition. Chicago: The University of Chicago Press, 1984
2. Giedion, Sigfried. *Mechanization Takes Command*[M]. New York: Oxford University Press, 1948
3. Hawkes, Dean. *The Environmental Imagination. Technics and Poetics of the Architectural Environment* [M]. London and New York: Routledge, 1989