

Professor Gülru Necipo_lu

SEMINAR FA 224. Architectural Practice in the Islamic World:
The Visual and Written Evidence

1. Feb. 9 GENERAL INTRODUCTION

2. Feb. 16 THE ORIENTALIST LEGACY

ORNAMENT:

*S. Durant, Ornament. From the Industrial Revolution to Today
(Chapter on Orientalism)

E. H. Gombrich, The Sense of Order

S. Morrison, "Venice and the Arabesque Ornament," Selected Essays
ed. D. McKitterick, pp. 142-58.

NINETEENTH- AND EARLY-TWENTIETH-CENTURY LITERATURE ON ORNAMENT:

*J. Bourgoïn, Arabic Geometrical Pattern and Design

*O. Jones. The Grammar of Ornament

E. Kühnel. The Arabesque (trans. R. Ettinghausen)

RECENT STUDIES:

*N. Ardalan and L. Bakhtiar, The Sense of Unity: The Sufi
Tradition in Persian Architecture

*T. Burckhardt, Art of Islam. Language and Meaning
____. Mirror of the Intellect. Essays on Traditional
Science and Art

*K. Critchlow, Islamic Patterns: An Analytic and Cosmological
Approach

*I. El-Said and A. Parman, Geometric Concepts in Islamic Art
R. Ettinghausen, "The Taming of the Horror Vacui in Islamic Art,"
Proceedings of the American Philosophical Society 123 (1979):

15-28.

O. Grabar, The Mediation of Ornament

L. Massignon, "Les méthodes de réalisation artistique des peuples
de l'islam," Syria 2 (1924): 47-53, 149-60.

*S. H. Nasr, Islamic Art and Spirituality

*D. Wade, Pattern in Islamic Art

3. Feb. 23 ARCHITECTURAL THEORY AND PRACTICAL GEOMETRY IN THE PRE-MODERN
ISLAMIC WORLD

F. Bucher, Architector, The Lodge Books and Sketchbooks of Medieval
Architects

M.S. Bulatov, Geometricheskaia Garmonizatsiia (Skim drawings).

*Yvonne Dold Samplonius, "The Mensuration of the Muqarnas according
to Ghajath al-Din al-Kashi" (xerox).

* _____. "The XVth Century Timurid Mathematician Gh_j_th al-D_n
Jamshid al-K_shi and his Computation of the Qubba," Amphora, pp.
171-81.

- *G. Downey, "Byzantine Architects, Their Training and Methods," Byzantion 18 (1946-48): 99-118.
- A. Dürer, Albrecht Dürer's Unterweisung der Messung (ed. H. Thoma).
- *Cafer Efendi, Risale-i Mimariyye: An early seventeenth-century Ottoman Treatise on Architecture (trans. H. Crane)
- *L. Golombek and D. Wilber, The Timurid Architecture of Iran and Turan, vol. 1, pp. 137-69.
- O. Grabar and R. Holod, "A Tenth-Century Source for Architecture," Harvard Ukrainian Studies 3-4 (1979-80): 310-19.
- *D. Hill and A. Y. al-Hassan, Islamic Technology.
- P. Hochhut (ed), Die Moschee Nuruosmaniye in Istanbul: Beiträge zur Baugeschichte nach osmanischen Quellen
- Al-Jazari, The Book of Knowledge of Ingenious Mechanical Devices (trans. D. R. Hill)
- D. Kuban, "Notes on Building Technology of the 18th Century: The Building of the Mosque of Nuruosmaniye at Istanbul," in International Congress on the History of Turkish-Islamic Sciences and Technology, 1981, pp. 271-93.
- Diego Lopez De Arenas, Primera y Segunda partes de las reglas de la carpinteria de Diego Lopez de Arenas (ed. M. Gomez-Moreno).
- _____. Carpinteria de lo blanco y tratado de alarifes (Seville, 1633), reprint Madrid, 1912.
- L. Mayer, Islamic Architects and their Works.
- A. J. Qaisar, Building Construction in Mughal India. The Evidence from Painting.
- W.R. Schölller, "Le dessin d'architecture à l'époque Gothique," in Les Bâtisseurs des Cathédrales Gothiques ed. R. Recht, pp. 227-35.
- L. R. Shelby, Gothic Design Techniques.
- *M. Sözen and S. Saatçi, Mimar Sinan and Tezkiret-ul-Bunyan, (An Autobiographical Treatise of Sinan by Mustafa Sai).
- V. Stephen (ed. and trans.) Practical Geometry in the High Middle Ages.
- D. Wilber, "Builders and Craftsmen of Islamic Iran, the Earlier Periods," AARP (1976): 31-39.
- M. F. Woepcke, "Recherches sur l'histoire des sciences mathématiques chez les orientaux Analyse et extrait d'un recueil de constructions géométriques par Aboul Wafa," Journal Asiatique cinquième série 5 (1855): 218-56, 309-59.

4. Mar. 2 EVIDENCE FOR THE USE OF PLANS AND MODELS IN THE ARCHITECTURAL PRACTICE OF THE PRE-MODERN ISLAMIC WORLD

- M. Cerasi, "Late Ottoman Architects and Master Builders," Muqarnas 5 (1987): 87-102.
- U. Harb, Ilkhanidische Stalaktitengewölbe: Beiträge zu Entwurf und Bautechnik.
- *R. Holod, "Text, Plan and Building: On the Transmission of Architectural Knowledge," in Theories and Principles of Design in the Architecture of Islamic Societies, pp. 1-13.
- P. N. Khanlari, Girih-sazi dar hunar-i mi'mari-yi Iran (trans. into French as Appareillage de briques dans l'architecture Persane)

- *R. Lewcock, "Architects, Craftsmen and Builders: Materials and Techniques," in Architecture of the Islamic World, ed. G. Michell.
- *G. Necipo_lu, "Plans and Models in 15th- and 16th-Century Ottoman Architectural Practice," SAH 4 (Sept. 1986):226-43.
- *A. Paccard, Le maroc et l'artisanat traditionnel islamique dans l'architecture 2 vols. (Translated into English).
- *C. Purdon Clarke, "Persian Architecture and Construction," Transactions of the Royal Institute of British Architects 1881, 161-74.
- _____. "The Tracing Board in Modern Oriental and Medieval Operative Masonry," Transactions of the Lodge Quatuor Coronati, no. 2076, 6 (1983): 99-107.
- Janine Sourdél-Thomine, "Une Image musulmane de Jérusalem au début du XIIIe siècle," in Jerusalem, Rome, Constantinople, pp. 217-33.

5. Mar. 9 THE TOPKAPI SCROLL: A LATE TIMURID COLLECTION OF GEOMETRIC PATTERNS

- N.B. Baklanov, "Arkhitekturnie Chertezi Uzbekskogo Mastera XVI Veka," (Architectural Drawings of an Uzbek Master of the 16th Century) Soobshcheniia Insituta Istorii i Teorii Arkhitektury Akademii, Arkhitektury SSR 4(1944):1-21.
- *G. Necipo_lu, "Geometric Design in Timurid/Turkmen Architectural Practice: Thoughts on a Recently Discovered Scroll and Its Late Gothic Parallels," in Timurid Art and Culture, L. Golombek and M. Subtelny, eds., pp. 48-67.
- G. A. Pugachenkova, "Arkhitekturnie zametiki III (Architectural Remarks III: On the Characteristics of the drawings of a Bukhara Master of the 16th Century)" Iskusstvo Zodchikh Uzbekistana 1 (1962): 178-210.
- L. I. Rempel, Arkhitekturnie ornament Uzbekistana (Architectural Ornament of Uzbekistan).

6. Mar. 16 THE TOPKAPI SCROLL: ITS IMPLICATIONS FOR THEORY, PRAXIS, AND AESTHETICS

- K. Abu Deeb, Al-Jurjani's Theory of Poetic Imagery.
- V. Cantarino, Arabic Poetics in the Golden Age.
- *J. Clinton, "Esthetics by Implication: What Metaphors of Craft Tell us about the "Unity" of the Persian Qasida," Edebiyat 4, no. 1 (1979): 73-96.
- *R. Ettinghausen, "Al-Ghazzali on Beauty," in Art and Thought Issued in honor of Ananda K. Coomaraswamy, pp. 160-65.
- *Ibn al-Haytham, The Optics of Ibn al-Haytham (trans. A.I. Sabra). (esp. chapter on visual beauty).
- S. Kemal. The Poetics of Farabi and Avicenna.
- *D. C. Lindberg, "Alhazen's Theory of Vision and its Reception in the West," Isis 58(1967): 321-41.
- M. Mahdi, "Islamic Philosophy and the Fine Arts," in Architecture as Symbol and Self-Identity, pp. 43-47
- *V. Minorsky (trans.) Calligraphers and Painters: A Treatise by Qadi Ahmad (1606).
- Ibn al-Nadim, The Fihrist of al-Nadim. A Tenth-Century Survey of

Muslim Culture (trans. B. Dodge), 2 vols.

*F. Rosenthal, "Abu Haiyan al-Tawhidi on Penmanship," Ars Islamica 13-14 (1948): 1-31.

J. M. Rubiera, La Arquitectura en la Literatura Arabe datos para una estética del placer.

Amnon Shiloah (Trans.) The Epistle on the Music of the Ikwan al-Safa' *P. Soucek, "Nizami on Painters and Painting," Islamic Art in the

Metropolitan Museum, ed. R. Ettinghausen, pp. 9-20.

*E. M. Subtelny, "A Taste for the Intricate: Persian Poetry in the late Timurid Period," Zeitschrift der Deutschen

Morgenlandischen Gesellschaft 136, no. 1(1986):56-79.

David Summers, The Judgement of Sense: Renaissance Naturalism and the

Rise of Aesthetics

*W. M. Thackston (trans.) A Century of Princes: Sources on Timurid History and Art (esp. pp. 323-57).

*H. A. Wolfson, "The Internal Senses in Latin, Arabic, and Hebrew Philosophical Texts," the Harvard Theological Review 8, no. 2(1935): 69-133.

7. Mar. 23 STUDENT PRESENTATIONS
8. Apr. 6 STUDENT PRESENTATIONS
9. Apr. 13 STUDENT PRESENTATIONS
10. Apr. 20 STUDENT PRESENTATIONS
11. Apr. 27 STUDENT PRESENTATIONS

SUGGESTED TOPICS FOR PRESENTATIONS AND PAPERS:

1. Gothic and medieval Islamic architectural practice.
2. Islam and Renaissance Europe: Comparing architectural practice, manuals of practical geometry, treatises, biographies of architects, drawing techniques, and other topics.
3. Ornament topics: Theory of ornament in the 19th century, Renaissance printed pattern books with "Arabesque" motifs, analysis of Islamic practical geometry manuals etc.
4. Topics in aesthetics: analysis of philosophical and literary texts in terms of their implications for the visual arts and architecture (e.g, poetics of al-Jurjani, the optics of Ibn al-Haytham).
5. Architectural representation: Depictions of architecture in miniature painting (comparison of conventions used in different court styles), impact of European city views on Ottoman topographical miniatures.
6. Analysis of published Ottoman plans for irrigation works and water canals,

analysis of other known plans or drawings from the Islamic world.