

***ANTICIPATING AND ADDRESSING
THE CHARACTERIZATION,
DESIGN AND CONSTRUCTION PROBLEMS
OF FAULT ROCKS,
MELANGES and OTHER BIMROCKS***

**a short course for engineering geologists and
geotechnical engineers**

Dr. Edmund Medley

Dr. Harun Sonmez

Dr Candan Gokceoglu

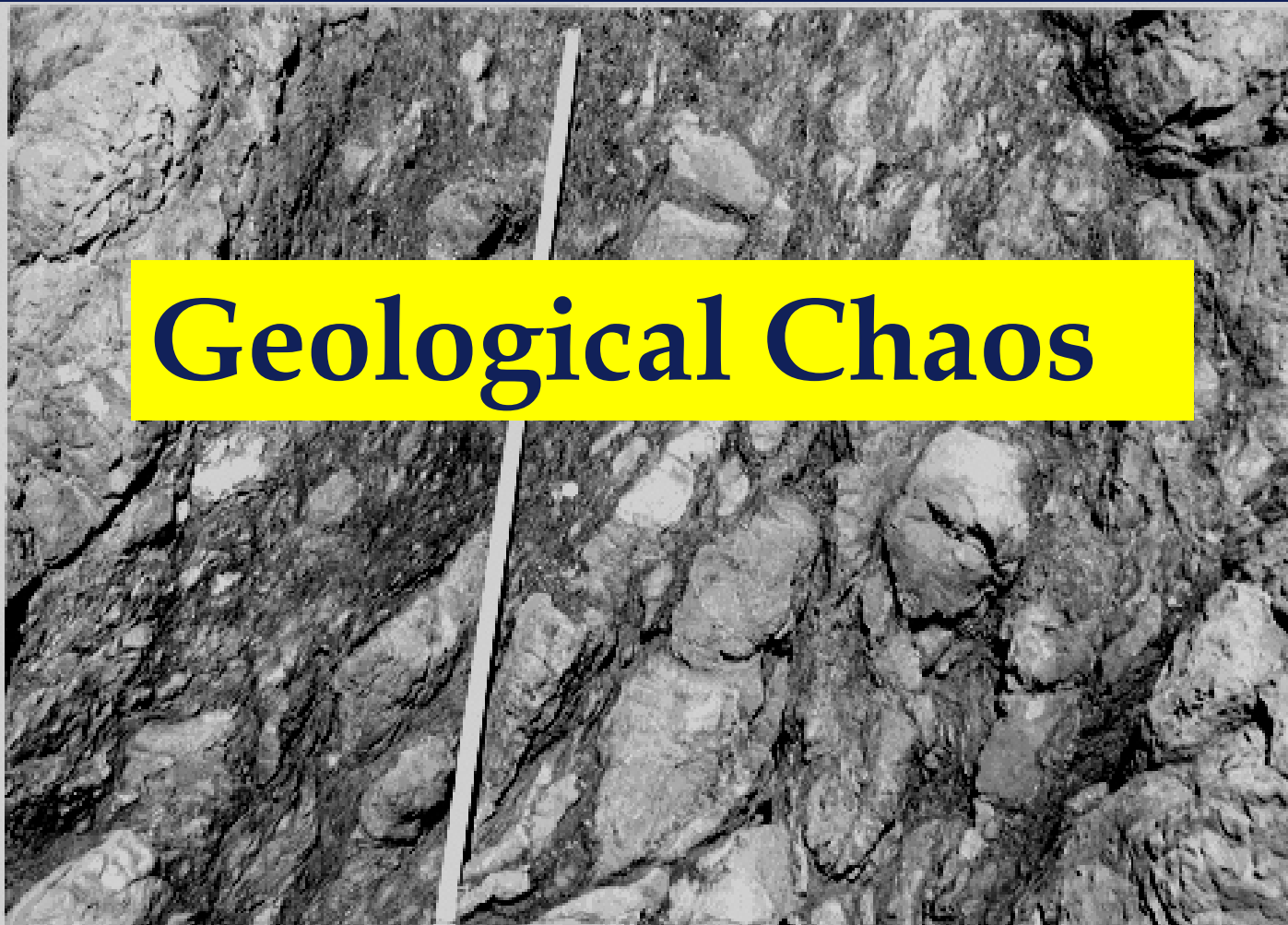
Dr. Resat Ulusay



Geological Engineering Department, Hacettepe Univ, Ankara, Turkey

June 22 and 23, 2004

Why we are here...



Dr. Edmund Medley

- Prospector in Canada 1969-1973
- Educated in Geological/Geotechnical Engineering
- Geotechnical Engineering Consultant 1978-91
- Principal Engineer in Geoengineering at Exponent, USA
- **Also** an Independent Consulting Geological Engineer
- Licensed Geologist/Engineer in US, Canada, UK
- Research and Professional Passion: **Bimrocks!**

Course Outline (June 22, 2004)

- **Introduction**
- **Lecture 1:** Characterization and classification of bimrocks and fault rocks
- **Lecture 2:** Investigation of bimrocks, field mapping; core logging
- **Lecture 3:** Anticipating and solving problems with excavations and slopes in bimrocks
- **Lecture 4:** Tunneling through bimrocks
- **Lecture 5:** Evaluation of strength of bimrocks

Course Outline June 22 2004 (continued)

- **Lecture 6:** Fuzzy based approach for predicting UCS of the Ankara Agglomerate (Dr. Gokceoglu)
- **Lecture 7:** Generalized approach for predicting the UCS of bimrocks (Dr. Sonmez)
- **Questions, Answers and Discussion**
- **Closing Comments** (Dr. Sonmez)

Course Outline (June 23, 2004)

- **Seminar 1: A Simple Lecture on Geological Complexity: How to Characterize Melanges and Other Bimrocks (Dr. Medley)**
- **Seminar 1: A Brief Overview of the Geoengineering Properties of Melanges in the vicinity of Ankara and Çorum, and Examples of Some Melange-Associated Problems (Dr. Ulusay)**
- **Closing Comments: (Dr. Ulusay)**
- **Afternoon: Field Trip to Anatolia
Melange**

Shorts Course Resources

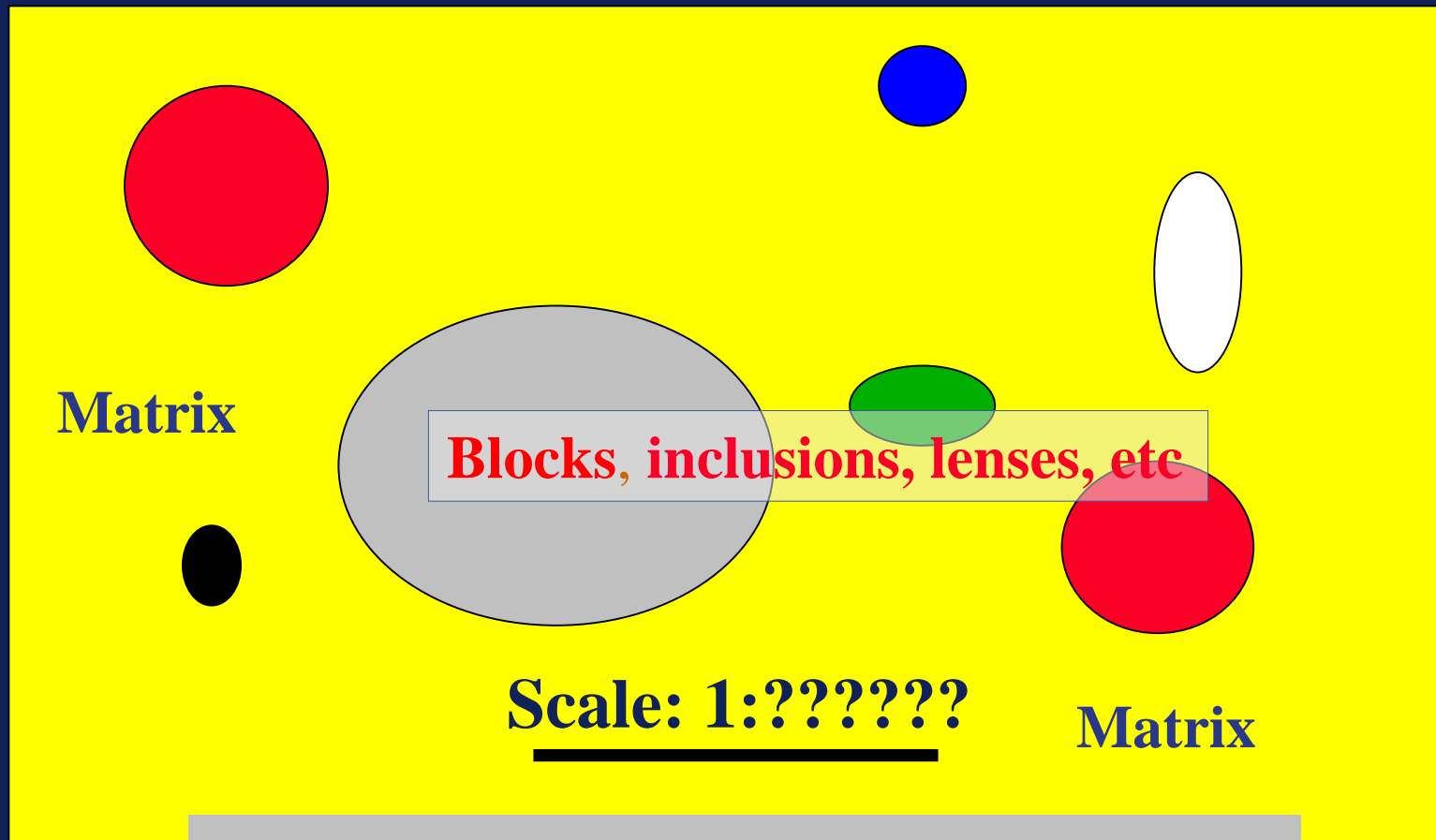
- Lecture Notes
- CDROM with presentations; papers and notes
- Please be busy **LISTENING** rather than taking writing lots of notes!!!
- **ASK QUESTIONS!!**

Particular Thanks to:

- Dr. Harun Sönmez, Hacettepe Univ.
- Prof. Resat Ulusay, Hacettepe Univ.
- Prof. Candan Gokceoglu, Hacettepe Univ.
- TUBITAK
- Prof. Wulf Schubert, Tech. Univ Graz, Austria and 3G (Gruppe Geotechnik Graz, Austria)
- Exponent Failure Analysis Associates
- Prof. Richard Goodman



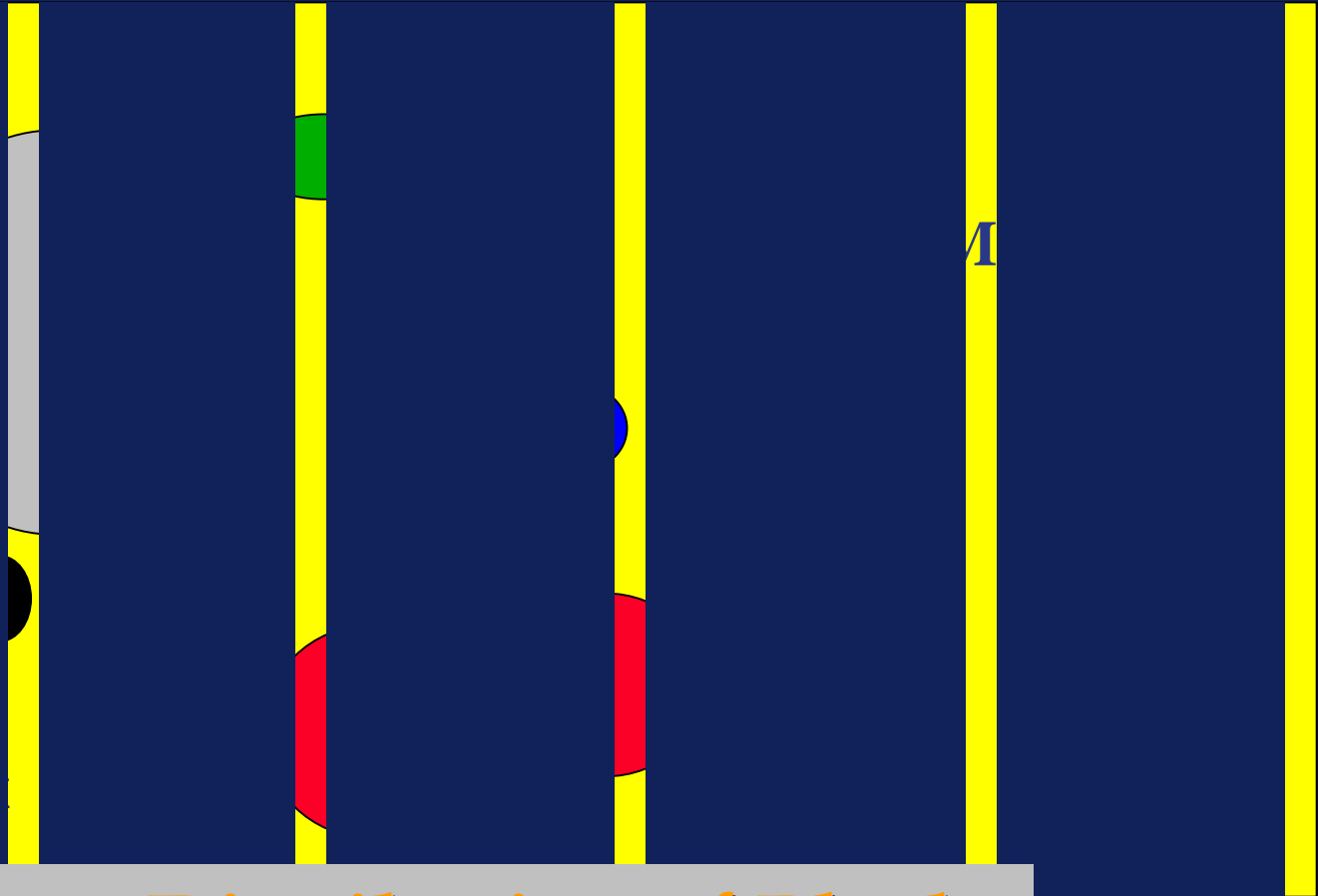
BIG CONCLUSION 1: Remember this picture!!!



Actual Distribution of Blocks

Medley, 2000

BIG CONCLUSION 2: Remember this picture as well!!!



Apparent Distribution of Blocks

