

## DEPARTMENTAL COLLOQUIUM

PROFESSOR BASSAM Z. SHAKHASHIRI

### NEW APPROACHES TO THE TEACHING OF UNDERGRADUATE CHEMISTRY COURSES

The content of first year college chemistry is slowly changing. The changes and their consequences will be discussed along with descriptions of the teaching aids that have been developed and used at Wisconsin. The effectiveness of the new approaches will be discussed.

Wednesday, October 3, 1973

4:00 p.m.

Room 1361 Chemistry

The Departmental Colloquia are for ALL faculty and ALL graduate students from ALL divisions of the Department.

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### SPECIAL NOTICE

There will be a graduate student-faculty coffee hour  
in the 9th floor lounge  
from 3:00-3:50 p.m. preceding the Departmental  
Colloquium on Wednesday, October 3

Everyone is invited for social and/or scientific discussion



73-10-3

The Department has excellent reputation for quality of teaching at both undergraduate and graduate level. Talk about recent exciting work here that is being copied elsewhere.

I. 3 major concerns:

- 1) course content
- 2) providing different avenues for learning
- 3) enhancing the role of the TA as an instructor of undergraduate chemistry and making his participation in teaching both effective and rewarding. Help him perform his teaching duties successfully and efficiently so that he can complete his Ph.D. work.

II. Talk about numbers in order to keep things in perspective.

73 TAs

importance of giving excellent exposure since most students take only 1 year of chemistry. (Attitude)

III. 103-104 course content

IV. CHEM TIPS

V. (Emphasis on student participation)

prelab

semiprogrammed booklets

VI. Audio tapes

VII. Study Room

VIII. Instructional Television

failures during past 20 years (used as substitute

talking face idea

lack of adaptation on part  
of instructor to medium

in lab: accurate, uniform; technique

distribution system

in lecture: closeups of demos

color

do demos that could not be done before

individual use in Study Room

Our programs used elsewhere; people come here to learn

*math review session*

IX. TA Training

X. Alternate ways of lecturing

The PROJECT in 104

XI. Student-faculty relationship

Knowledge of subject

sympathy to students

Commitment to teach

preparation

Means of discussion with students (Bull Sessions)

Teachers should do what they're comfortable in doing

XII. Thoughts about education

— tinkering

— Educ. Technology

— Grading labs via cassette

— Computer

— offer leadership not just respond to needs

XIII. Administrative & organizational changes: proficiency exam  
processing of grades  
registration  
lecture-quiz-lab

cooperation Fr. Div. and Fr. staff

Acknowledgements