

1967 meeting

1. Would you like more short courses?

Yes 46

No 17

Subject:

Thermal Analysis

Photochemistry - D. Neckers

NMR, Quant. Mech. (4)

Computer Program

Instruments (Theory)
(Electronics of it) - - - - Someone familiar with theory
(Application)

Incl. computer work & automatic data gathering

Field Theory

Photochemistry -- Douglas Neckers or Paul Barks

EPR

X-Ray Spect.

ESR

Disc. of DNR-Inorg. Prep. method

Gas Chromatography, thin layer chromatography, I.R. Spectroscopy (2)

Quantum Mechanics - - Sisler

Raman Spectroscopy - R.S. Tabias, U. of Minn.

VPC

Circular Dichroism

Use of Relaxation Methods in Chem. - Fast reaction s

Use of operational amplifiers and vacuum trains in inorg. synthesis

I.R. or Mass spec.

ORD & Circular Dichroism & new approaches to ionic equilibria calculations
(Ramette)

X-ray diffracting structure determination - Truman Jordan & Warren Smith

X-ray Crystallography

Electron Spin Resonance - B. R. McGarvey

3. Suggestions of possible discussion groups for the future.

Course Sequence	Disc. Leader
Gas Chromatography	R. L. Levy
Temperature Programmed & Pyrolysis	Midwest Research Inst.
Computer Applications	
A.C.S. Tests - as guides to course content	L. B. Rogers
XXXXXXXXXX	
Topics Useful for small colleges	
New Ideas for teaching thermodynamics	
(2) Freshman Honors	
Audio Tutorial Techniques	Postlewaite (Purdue)
What should be taught in Gen. Chem	
What should be taught in High School Chem.	
(3) Mass Spectroscopy	
Photochemistry	Douglas Neckers (Hope)
Biochemistry in Phys. Chem. courses	
Apparatus & Instrumentation Maintenance	R. Ensmen (Indiana) or
(Problems & Solutions concerning)	Dr. Amy (Purdue)
Teaching techniques that have been tried and have perhaps been either successful or failures	
Undergraduate research programs	
New demonstrations	
Imaginative lecture techniques	
Genuine lecture-room experiments	
Faculty Research Projects (different areas in separate groups: organic, analytical, inorganic, etc.)	
Lecture Demonstrations	
Laboratory Presentations	
Use of Isotopes in Quant. or Qual. Radiometric analysis	
Radio chem.	
General chem. labs.	Jay Young
Chem. buildings & facilities - planning & use	
Safety practices and procedures	
Sharing of curriculum innovations	
Film loops	
Advanced Lab course	
General curriculum for Chem., incl. innovations in chem. courses, & general requirements outside of chem.	
New techniques - NMR, ORD, etc.	
Trends in General Chem.	
Examination techniques	
Combining present general chem. & organic courses into basic two year course in which material is presented by topics without overlap.	
One organic course vs. specialized courses for pre-meds, professional chemists, etc.	
Bioorganic chem. early in undergraduate career (Soph)	
Redistribution of subject matter in courses	Someone from Earlham
Polymer chem. - undergraduate level	
Biochemistry - undergraduate level	Dr. Meints
Why should L.A. College chem. dept. continue to exist	
More course content & text	
Integrated advanced labs.	
Use of computers in chem.	
Use of film	
Electron Spin resonance	

Follow-up on Lippincott's talk on teaching aids
with a discussion on this next year - exchange
of tips & problems encountered

Advanced Students (Chem. Majors) Freshman lab.

Hammond Plan (Integrated 4-year curriculum)

Electronics

Off campus summer research opportunities for
small college teachers

Thermo (teaching of)

Introducing quantum chem. in undergrad
curriculum

Larry Strong

4. Do you like the discussion group arrangement used at the Luther & Evansville meeting whereby the Friday discussion groups are repeated Sat. morning permitting attendance at two different discussion groups?

Yes 73 No 2

Do you prefer the discussion group arrangement where the Sat. meeting is a continuation of the Friday discussion

Yes 9 No 47

Comments:

Most topics can be adequately treated in one session
Would like opportunity to attend still more discussion groups
Would like to attend more groups
Always there are newcomers, so repetition is necessary. If continued discussion seems necessary, maybe it could start earlier 2:30 & go to 5 or 5:30 with coffee right at the session.
The yield from the second day's discussion is often down
Perhaps both can be retained although attendance at two different groups is preferable
This is probably the most fruitful arrangement
Provided the group has an "agenda" or program (voted no part 1, yes part 2)
Two hours or so is usually sufficient. A second gathering on the same topic often "falls flat".
Short courses should certainly be on a continuation basis
Couldn't a continuation be decided upon by the group, if necessary even if others attended also
Depends on subject discussion. Some need more time than others.
Regardless of arrangement, I'll try to hit at least 2 groups/meeting.
A combination of both is best.
Depends on subject.
Some of each
Any meaningful continuation could be done informally following either the discussion or the evening dinner.
Enough can be exchanged in one session
Prefer one longer discussion period in PM and lectures Sat. A.M.
Depends on nature of discussion group

5. Please suggest topics and speakers for one or two main speakers for a meeting.

<u>Topic</u>	<u>Speaker</u>
Models in Chemistry	R. T. Sanderson
History of Chemistry	A. Ihde - Wisconsin
Organic Polarography	Stanley Wawzonek
Molecular Spectroscopy	Gordon Barrow (Cesc Ins)
Any of several - good speaker (good banquet speaker)	Harold Moore (Ind. U.)
M.O. Theory	Harry Gray
Spectroscopy	G. Barrow
Photochemistry	D. Neckers
Programmed instruction - Review of past ten years	
Research approach to elementary lab.	Jay Young
Semi-Emperical Calculations on Larger Molecules	Raold Hoffman (Cornell
(2) Brewry Chemistry	
Molecular Evolution	E. Margoliash - Abbott
Viral Replication	S.S. Piegelman - Ill.
Chemical Education in some other countries	
Color	Eastman Kodak ?
Innovations in chemistry curricula	
Psychadelic drugs	
Chem. problems in studying enzyme Reaction mechanisms	Jules Shafer (Mich)
Biochemical pathways	D. L. Green (Wis.)
Synthetic DNA	Kharhana (Wis.)
Enzyme Research	David Green (Wis.)
VSEPR Theory and/or double quartet theory	
Catalysis	Dr. Val Haensel
Stereo Chemistry	Dr. E. Eliel
X-Ray studies of inorg. Struct.	James Ibers (Northweste
Oceanography	