

## Outlook for Chem-Eng

Most of the following is compiled from CHEMICAL ENGINEERING NEWS.

### Outlook Summary

Chemical engineering is an expanding field, offering good employment prospects to those already trained or who will complete their training in the immediate future. Competition will become increasingly keen as result of present record enrollments in engineering schools.

### Nature of Work

There are many different types of work in the field of chemistry. It is necessary that every chemical engineer is technically skilled and has the ability to get along with people. These two qualities are required in varying degrees on different types of work. The following listing of the general fields of chemical engineering begins with those jobs demanding more scholastic interest and ability and follows through to those which demand more interest in and ability to handle people. The first on the list is research, available only to those who have high scholastic interests and ability. It requires constant study, a general reading of the scientific literature to keep abreast of new developments, as well as thorough and specific study in one's own field. This necessitates a reading knowledge of French, German and other languages.

Equipment engineer follows close to research in the demand for technical skill not only in chemistry but in mathematics and physics as well. Next we find patent law. A man who deals in chemical patents must have, along with a knowledge of chemistry, a knowledge of the history of past discoveries, patents, etc. and an excellent knowledge of law. Engineering takes in anything from the actual planning and development of a chemical plant to the ironing out of the bugs in chemical processes, usually on an industrial scale. The analyst needs approximately equivalent amounts of chemical knowledge and ability to get along with people. The same may be said for the application chemist who finds new uses for both old and new chemicals.

Swinging more to the demand of greater ability to handle people, we have the technical writer. This takes in the writing of technical reports, bulletins, specifications, and scientific articles for magazines. Also collecting and writing down in clear, unambiguous, and intelligible fashion, technical information for those in research and various other fields of chemistry. Market analysts find a market for new developments, determine the cost of manufacture and possible profits to be won from it.

Plant supervision requires a person who can carry out chemical processes on a large scale through the hands of assistants. It requires a great deal of ability in handling people as well as technical skill. University, college and high school teaching is very much the same. As well as handling the students, you must be able to properly instruct them in the required courses. The field needing the greater ability to get along with people is chemical sales. This requires a knowledge of the details of the process, use, good points and the difficulties inherent to the article one is selling.

### Training and Other Qualifications

Training in physics and mathematics, as well as in chemistry and engineering, is important. A bachelor's degree is the minimum requirement

## Gift from Korea

by Mary Lou Gagliardi

In a large living room by a huge window, stood a great Christmas tree trimmed with red and white ornaments. Heaps of gifts were piled beneath it. One conservative little package was shoved to an obscure corner.

When the family approached the tree, Christmas morning everyone fluttered and scurried about to open his gifts, all but a young lady, who slowly walked over to the tree and claimed the little package. She picked it up and held it over her heart. Then she raised her head in a silent prayer as a tear trickled down her cheek. She turned and walked upstairs.

The tree, the gift, the setting, were all part of the young lady's Christmas, but they were meaningless to her. She walked about in a trance—hoping, praying.

She thought of John, of the time when they were children. The two of them used to listen to good shepherd's tales in her home at Christmas time. She thought of other Christmas trees and Christmas legends. John liked the one about Joan and Michael, the twins. She remembered how the twins came running cross the hillsides of Bethlehem to their father who was watching sheep near by.

"Father," they said, "come and see what we have found. We have found two baby trees and they are green, even though it's wintertime."

The father sat down and took the children on his knees. "They must be fir trees," he said, and asked more about them.

"Oh!" said the children, "The trees are very small and grow very close together as if they loved each other." Laurette thought how much she and John were like the trees. They had grown side by side, and with the years their love had grown too.

As she thought further about the story, she could almost hear the children say, "We will take care of them so that they will grow up with us."

The father sent the children home, telling them he had to watch the sheep. Every day after that time, the children visited the twin trees that seemed to point to heaven.

Later, one cold winter night, Joan and Michael heard their father telling their mother about a wonderful thing that had happened. He said that while he and the other shepherds were watching their sheep, angels appeared and told them that the Son of God was born in Bethlehem, and a bright star shone and sent its light straight from heaven to the manger where the infant Jesus lay. All the shepherds were going down to bring

for new entrants. Graduate training is desirable.

### Where Employed

A great many industries employ chemical engineers, with the majority in production work. More than half are in the chemical industries and petroleum refining. The following states furnish employment for about 60 percent of all these engineers: New York, New Jersey, Pennsylvania, Ohio, Texas, Illinois, and California.

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## Jesters Plan "Another Language"

The Penn State Jesters will present Rose Franken's three-act comedy drama "Another Language" at the West Hazleton High School Jan. 11, 12, Mrs. Woodbridge announced last week. Rehearsals began last month under the direction of James Lorah.

The author utilizes the familiar love triangle for her comedy. The principles of the triangle are Victor Hallam, his wife Stella, and his nephew Jerry.

### Members of the Cast:

Mrs. Hallam	Anna Erlemann
Mr. Hallam	Russell Wood
Harry Hallam	Joseph Kendra
Walter Hallam	Robert Csizma
Grace Hallam	Betty Harlor
Paul Hallam	Joseph Hastings
Etta Hallam	Mary Jane Allen
Victor Hallam	Frank Nowab
Stella Hallam	Jane Margwarth
Jerry Hallam	Lee Kromis

the child gifts. One had fruit, another had two doves, and the head shepherd had two snow-white lambs from the flock. The twins' father had a piece of lace to give to the Blessed Mother. Joan and Michael began to cry.

"We want to go to see the Holy Babe," they sobbed.

But you have nothing to give Him," said their mother. "And we are too poor to buy a gift."

"We will give the trees," they answered. We love them so much that we know the Baby will love them too." They ran to the hillside in order to get the little fir trees. They carefully dug them up, root and all. Then they ran after the shepherds on their way to the manger in Bethlehem.

In the stable they found the infant Jesus on a bed of straw. The shepherds and the twins bowed and came close to Him, offering their gifts. The Holy Babe turned His eyes to them and then held out His tiny arms to the trees that the twins had brought. The shepherds planted the trees near Jesus, and tied a lamb to each tree. They hung the fruit on the boughs and let the doves rest in the branches, so that the trees were full of gifts. And then the star from heaven shown down on them and lighted them up so brightly that they could be seen a long way off. These were the first Christmas trees filled with gifts and lights. They held gifts for Jesus and lights from the burning stars of heaven.

Laurette untied the package she had taken from beneath the tree. She fondled the wooden cross and read John's card:

And though I have taken up my roots, I am this day with you.

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## KATE



The morning after the Pottsville game I was sitting in the snack bar having a cup of coffee. Suddenly a flash of red appeared, streaked past my arm, and then disappeared as quickly as it appeared. Turning to Bob Barrett, who was having his 11:20 brunch, I inquired, "What was that ball of fire? Barrett looked up from his pancakes and, not batting an eyelash, replied, "Vim, Vigor, and Vitality Midash on her way to Math class."

Between one of her racket trips from the snack bar to the Chem. Lab. I discovered that V.V.V., more formerly known as Kate, is a sophomore enrolled in bacteriology and taking third semester courses chemistry, math, zoology, and French.

Besides having vim, vigor, and vitality, Kate is known for her ability to know and get along with people. She is distinguished in being the only student at P. S. C. to serve on Student Council for two years. During her freshman year she served as secretary of Council and this semester she is chairman of the Social Activities Committee. As a member of the student governing body she attended the conference of Student Councils at the Erie Center. Tears will flow when Kate, one of the leaders of the sophomore class, leaves in February to pursue higher learning at the Main Campus.

A Merry Christmas and  
Happy New Year  
from the Staff

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## Council Unveils Constitution

(Continued from page 1)

there has been no need for it during this semester. (It also hasn't taken any interest in the functioning of student government.)

The draft of the new constitution will be mimeographed and copies of it will be presented to the students next week for their consideration during the Christmas vacation. The week following the Christmas vacation the constitution shall be put to a vote of the student body. The new constitution must be ratified by:

- (1) A two thirds vote of the Student Council members.
- (2) A majority vote of the student body.

If any question should arise on the new constitution, any member of the constitution committee will certainly attempt to answer it and clear up any confusion which may exist. The members of the constitution committee are John Zamba (chairman), Ed McGee, Kate Midash, and Bernard Rachilla. Please contact them if you have a question you would like answered.

## Exams Begin Jan. 19

(Continued from page 1)

Political Science 3, A, M-209, 2

Art 74, B-101, 2

Political Science 3, B, D-1, 2

Army R.O.T.C., M-211, 3

Air R.O.T.C. 33, M-1, 3

Air R.O.T.C. 1, A, B-101, 3

Air R.O.T.C. 1, B, D-1, 3

### MATH-ENGINEERING CLUB

A committee consisting of Mary Lou Gagliardi, John Zamba, Harold Filbert, and Harold Kramer met on Monday, December 4 for the purpose of arranging final preparations for the dance which was held on Friday, December 8.



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