1940

The College News, 1940-12-11, Vol. 27, No. 10

Students of Bryn Mawr College
CalendareThursday, Dec. 12-Spanish Club tea, 4 p.m.
Friday, Dec. 13-C. O. Hardy, Wartime Control of Prices, Common Room, 4 p.m.
French Club: Christmas Play, Wincham, 8:30 p.m. Maids' and Porters' Dance, Gym, 9 to 11 p.m.
Sunday, Dec. 15—Christmas Service, Goodhart, 1:15 p.m.
Thursday, Dec. 19—Summer Camp Christmas Party, Common Room, 4 p.m.
Current Events, Miss Reid, Common Room, 7:30 p.m.
Maids' and Porters' Glee Club, Carol Singing, Wednesday, Dec. 18—German Christmas Play, Common Room, 8 p.m.

Cooperative College Workshop Organized To Teach Refugees

The American Friends' Service Committee, which administers the summer-the Wolfeboro school for foreign scholars, has established at Haverford the Cooperative College Workshop, another educational project to equip refugee scholars and artists to teach and to write in America. Miss Bertha Kraus, a German professor of social work at Bryn Mawr, originated the plan. Twenty-eight European scholars all recent arrivals in America, are now living in Haverford. The workshop offers training in education, which are being taught by Haverford, Swarthmore and Bryn Mawr professors and others.

Hardy to Discuss Economic Problems Raised by War Policy

Charles O. Hardy will speak on Wartime Control of Prices in the Common Room on Friday at four o'clock. Mr. Hardy is a member of the Brookings Institution of Washington, D. C. and in September published a book for the Institute on the subject of his lecture here. The research work in this field was undertaken at the request of the United States' War Department.

Edith Voorhees, '42; John Marsh, '43

Christmas Concert. To Be Given Jointly

The Christmass Service will be held on Sunday, evening, December 15, at 7:30 p.m. in Goodhart. The sermon will be given by the Reverend Ernest E. Earp, Church to the Redemptorist. The choir will sing: Two Magnificats by Gregoire, Christmas Cantata, and H. Hume.

Hardy criticizes new songs.

The Nazis have found that the most popular songs in Europe at the moment are American, and they are being used by the Gestapo in order to make prisoners think that the Gestapo is a friendly force. Mr. Hardy criticizes the new songs.

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By Margarette Beganin

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"Oh, never mind," they say bit­terly, taking all the apples out of the box and throwing them on the floor.

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Translating a series of lectures into courses involves many difficulties and it is difficult to pin down the cooperativeness the efforts which the various departments have already made. The idea has, however, the undoubted support of the campus as a whole, and we believe it will remain the model for other courses.

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French Spirit Not Dead, Says Pierre de Lanux
America is leding Force In World Today; Must See Her Danger

Deneux, December 1—Pierre de Lanux in his lecture at the French Institute, stated that France although defeated during World War I, is not militarily dead. As it has been said from other disaster of its history, France, its spirit and character will rise from its present predicaments.

Lanux's current fate was reported in the French-Prussian War of 1870. France was militarily beaten, her prosperity weakened. Foreign armies were in Paris. In spite of disaster France did not lose her French spirit and character, and recovered to be France once more. This was not due to the leadership of any one person, nor to a concerted movement toward France. It was the French quality cultivated in each Frenchmen, which provided a desire to live the French way.

The Third Republic was then formed, and although it lacked a political structure a democracy. Auscultation resulted and there was a loss of the discipline and of organization. The French are too full of criticism and self-scrutiny to allow themselves to slip into an undemocratic regime.

M. de Lanux fears, not the political appearance of France as a nation, but differences with her neighbors. The French will have an important role to play when Europe is in danger. It is on the French character they are depending and immediate changes from French authority. To America remains the role of leadership of the world to which her capital is needed to dispense military forces. The ideas of value are far better worth.

If Americans still sympathies with the French, the latter are at least of the fact. In despair they consider the Americans' war, because they believe themselves shut out. They do want cooperation for American aid. If the nation is in touch with the Americans' war America has no choice of war, whereas the French have.

Pierre de Lanux is the link between French and American thought. He urges that they understand the title in its proper meaning. The French have been able to give an interpretation due to the leadership of any one person, nor to a concerted movement toward France. It was the French quality cultivated in each Frenchmen, which provided a desire to live the French way.

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Rednor Tea
Everyone is cordially invited to the Christmas Tea which is to be given at Rednor on Wednesday, December 18, from 3:00 to 5:00. There will be a skill, carol singing, or some other form of entertainment.

20th Century History Of Physics Discussed
Michaeis Tracey Development Of Physics as Related To Motion Theories

In the sixth of the History of Sciences lectures, Mr. Michaels spoke on the development in physics since the beginning of the present century. Central to his presentation was the principal theories of motions: the particle theory and the wave theory, and then described the step in the advancement of modern physics in their relation to those two theories.

During the eighteenth and the early part of the nineteenth centuries, the natural philosophers succeeded in building a satisfying particle theory into which all the known physical information fitted. About the same time, Huygens and later, Young, developed the idea that light is a wave motion. When James Clerk Maxwell introduced his theory of electromagnetic waves, and showed that the motion of electric charges leads to a wave motion, workers felt that this theory of light had been carried to its logical conclusion.

The closing years of the nineteenth century brought into existence five bits of knowledge which proved this idea false and revealed the structure of physics. Michelson and Morley, experimenting with light, proved that its velocity is unaffected by the motion of the observer. About the same time, Hertz found that electricity could be emitted by solid bodies under the action of ultra-violet rays. In 1895, Rontgen discovered a type of radiation emitted when electrons strike the walls of a discharge tube, and gave it the name of X-rays. Becquerel then found a spontaneous type of radiation called radioactivity. Finally, Planck discovered that light is given off from solids in discrete bits of energy which he called light quanta.

These few results had a great impact on the physics of today. In 1906, Einstein predicted a quantitatively relationship between the width of the light falling on a solid and the energy of the electrons ejected from it. This caused confusion, because the assumptions of Planck and Einstein depended on the fact that light is a stream of particles, while men like Young and Maxwell proved that light is a wave motion.

Einstein, working from the Michelson-Morley results, regarding the velocity of light, developed his theory of relativity. Rutherford bombarded the atom, and found that it consisted of a positive nucleus with electrons revolving around it. Then Compton showed that X-rays under certain conditions act as waves instead of particles.

This again left the assumptions of electromagnetic radiations to be considered purely as waves for one purpose, and as particles for another.

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BY WEISS IN LAST LECTURE

Continued from Page One

are even though some experimental
knowledge may not agree with it.
The great revolutions in science
are those which violate accepted
hypotheses, and in that way science
commonly progresses forward step
by step.

Most of our concepts in science
have radically changed at some
time. For instance Aristotle con-
sidered a circle the most continuous
form and a straight line finite,
while Newton said that anything
traveling in a straight line will
continue in that path forever un-
less acted on by some external
force. And yet, that which he pointed
out, is that nature is inherently rational.
If nature is attached in the right
way, it will reveal an answer.

The technique in science seems to
remain at a point of accuracy as
it to the hypotheses of the time.
If Newton had had our present
telescope, he could never have for-
mulated his simple theories because
they would have left too much of the
empirical data unexplained. It is not
true, however, that scientists
have only had information that dis-
ted their theories. science, Mr.
Weiss said, is trying to drive a
path through a multiplicity of facts,
and at times is forced to ignore
empirical data unexplained by their
hypotheses. In that respect, scien
te interpret facts rather than
being subservient to them. The
province of science differs today from what it was in the time
of Aristotle. It is not true, Mr.
Weiss said, that the various
branches of science have been sub-
tracted from the original concep-
tion of philosophy and left without
philosophy is richer today than it
was before and is science. But
they are still certain things, such
as the idea of God, which are out-
side of the realm of the scientist.

The artist is concerned with the
existence of an individual being
which includes within itself the na-
ture of everything else. The phi-
losopher is looking for a concept so
broad that the individual thing is
no illustration of it. Science is concerned, not with the individual
in the universal, but with certain
types.

All the sciences, Mr. Weiss said,
overlap and verge on each other.
But they each have a certain ap-
proach which is peculiar to them.
In that respect, each science is sep-
ate and worthwhile in itself.

THE CHRISTMAS SPIRIT
is at the
BRYN MAWR COLLEGE INN
BREAKFAST LUNCH TEA DINNER

THE MANNA - BAR
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New and frightening Innovations Do Not Frighten Brunettes

By Barbara R. Coddington

A gifting of colorful legations, garish bedrooms, and a "Do Not Touch or Feed the Animals" column in large letters over the guest door startled but in no way deterred enthusiasts rushing to the winter College Dance. Inside all found spectacular spectacumens. It was the first time in his memory that the oldest inhabitant had seen, the orchestra in a corner, program dances, "boy meets girl" hall signs, so many waiters, so few a sloppy spot that found itself wholesome to wet their feet in the snow outside before cutting in.

For the first time in the history of Great Britain may very soon see American financial aid open an interesting question. Great Britain has over five billion dollars invested in the United States and Canada, only a small part of which cannot be easily liquidated. So far, good-exchange good has been sufficient to pay for almost all her pre-war imports. Considering these facts it is probable that Lord Lothian's speech was for the purpose of avoiding an American feeling, and of discovering whether America is willing to follow her financial aid with possible military intervention. The answer to this question might well be: "Lord Britain will prepare for a long war or consider a negotiated peace."

An American policy is undoubtedly the most decisive factor in the balance of power today, the spread of Hitler and Goebbels shows that American developments are watched carefully in Germany. In Hitler's speech to the German workers, America for the first time was specifically defined as an enemy power.

In the Far East, Japan's attitude was indicated in the speech of Foreign Minister Masumura. He implied that Japan has no wish to fight or is willing to be reasonable if we will bargain with her. Great Britain, following the lead of the United States, has announced a loan of ten million to China. Germany is at last a member state of the Balkans at the expense of Italy. The smaller Balkan states are much less conservative than before, and England was most important strategic base in Greece.

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