

Along the Scientific Front

Science Settling Down To Accurate Evaluation

In science, as in every other field, headlines have become the order of the day. No longer are epochs of time marked by the occurrence of scientific discoveries; ages are no longer reckoned by the relative degree of ignorance or enlightenment in which men live. Instead, the progress of science, the augmentation of that whole body of available knowledge, has merged, from a succession of events, into a smooth, serene expansion, too stable and well-established to be disturbed by any but the most momentous events. Scientific knowledge and pursuits have now advanced to the stage where hard work and cool, methodical procedure come into their own. The vigorous, fervent, undirected activity, which depended upon genius or accident for its ultimate success, has been superseded by a more rational, deliberate attack.

Man Batters Nature's Eye

The complex pattern of scientific development may appear discontinuous and confusing to the uninformed observer, but in it certain definite trends may be detected. Recent activity in the measurement of star-brightness is a case in point. At Lick Observatory, Mt. Hamilton, California, the photo-electric cell is brought into play in the accurate determination of stellar brilliance. Due to its tremendous capacity for adjustment to varying conditions, the human eye, even aided by the most efficient telescopic apparatus, is an incredibly poor judge of brightness.

But, strangely enough, when two objects are observed, very small differences in brightness show up with startling clarity. The star's light, then, is allowed to fall upon a photo-electric cell whose current, multiplied two million times, lights a small lamp. A "pilot" lamp, of known power, then furnishes the basis for an accurate comparison. The transition from light waves to electrical energy makes possible the extremely precise calculations that are desired.

Another California observatory, that at Mount Wilson, collaborates now with Dr. Samursky of Hebrew University, Jerusalem, in advancing the theory that our universe is rapidly decreasing in size. A diametrically opposite hypothesis has been given almost universal credence for the last ten years. An aberration, the presence of a reddish tinge in the light from distant nebulae, was explained by assuming that the universe was expanding at a rate comparable to that of an explosion. Dr. Samursky rejects the old theory and substitutes his own calculations, which afford results many times more conclusive and consistent than the other ever did. In addition, he proposes a long-range experimental trial, in which the wave-length of the red line of the cadmium spectrum, now measurable with great accuracy, would be measured now, and again 350 years in the future. A decrease of one twenty-five-thousandth of an inch in wave-length would substantiate the Doctor's theory. A fantastic proposal, but perfectly feasible under present conditions.

A hill, for the most part composed of a particularly heavy rock, is now being weighed by geophysicists of the U. S. Coast and Geodetic Survey. This somewhat unusual procedure is resorted to as a means of detecting the presence of certain valuable mineral deposits in Rhode Island and adjoining states. Long famed for the extreme density of its rock, this hill was chosen as a proving-ground for the new process, which will yield invaluable information concerning the inner structure of the earth. Accurate measurements are made of the force of gravity; so accurate, indeed, that a truckload of radio equipment is used to maintain time-signal contact with the Naval Observatory. In addition, two pendulums are used to detect local gravitational deviations. These experiments, in common with hundreds of others of recent date, illustrate what is perhaps the most significant trend in modern science, namely, the definite, accurate evaluation of experimental data. No more do research workers deal with abstract quantity, vague generalization, and uncertain conclusion. A hazy inter-relation of cause and effect does not satisfy the scientist; he refuses to allow that which may be his life-work to be blighted by any ambiguity. Mathematical derivation of formulas from fact has come to stay, and that mathematical precision of thought and action is dispelling the mists which have obscured human vision for a thousand years.

Ramsay to Preside Over Kosmet Revue after-dinner speaking, has acted in this capacity for a number of past revues. He has always brought many laughs to the audience with his homely observations and impromptu cynicisms, and the Klub reports that he is cooking up a fresh batter of nonsense with which to regale this fall's revue-goers.

Beck-Jungbluth to Play. The combined orchestra of Leo Beck and Eddie Jungbluth is already well known to campusites thru its appearance at university parties and at the Park. It, too, has served at a number of past fall shows as well as playing in the pit at several Kosmet Klub spring shows. The band's booking insures plenty of good popular music both in accompaniment for the various acts and on its own.

This year's revue, which will be held at the Stuart theater, will feature ten full stage acts and four curtain acts, all participated in by fraternity and sorority groups in competition for three awards. One loving cup will go to the winning fraternity act, another to the winning sorority act, and a third to the best curtain act.

Climax of the show will come with the revelation of the 1937 Nebraska Sweetheart who was elected recently by men students from among four candidates, Margaret McKay, Rita Alger, Audrey Marshal, and Eva Jane Sinclair. Tickets are now on sale for 50 cents, and may be purchased from any of the many student salesmen circulating about the campus.

Daily Nebraskan

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BILL CLAYTON BECOMES FIRST PHARMACY COLLEGE B. M. O. C.

(Continued from Page 1.) liked the place so well he stayed. He has never seen the U. C. L. A. campus to this day. While at Stanford he played second string polo and later played on the Fort Riley second team.

Named Lieutenant Colonel. Grand Island is Clayton's home town. The tall editor tops the tape measure at 6 feet 3 inches. The first man to head the Cornhusker staff after only two years at the university, he also claims the distinction of being the only editor "who hasn't dressed up to the job."

Most recent honor to come to Clayton was the appointment as lieutenant colonel of the field artillery of the R. O. T. C. and battalion executive. The appointment was announced this morning. Among Clayton's other titles are captain of Red Guidon, field artillery officer's club; treasurer of Student Council; past president of the pharmaceutical club; and president of Phi Kappa Psi.

SUN NOW America's Sweetheart SONJA HENIE "ONE IN A MILLION" WITH DON AMSCHE RITZ BROTHERS Plus Booth Tarkington's PENROD AND SAM MAT. 10c

TODAY! Come on... wake up and laugh! A whole new load of Comedy Stars... "MARRY THE GIRL" Featuring Mary BOLAND, Ruth HERBERT, Masha AUER, Frank McHUGH, Allen JENKINS, Carol Hughes, Alice Newberry, Hugh O'Connell. Plus! To the winner—LIFE and LOVE... DEATH! "Lancer Spy" with Peter Lorre, Dolores Delaney

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be increased by act of congress. Emphasis is placed on the urgent need for control of surplus and for the storage of surplus "in an ever normal granary" so that in the event of a widespread drought consumers will be assured of adequate supplies without "drastic increases in price."

Spanish Intervention Too Late?

Indications are that the problem of removal of foreign troops from Spain may be solved by the terms of affairs in Spain itself. Franco's rise to position of dictator over two thirds of the territory, accompanied by continued fascist victories lead to belief that duration of the war may be a matter of only a few months. France and Britain, despite vigorous protests, will have watched from the sidelines the triumph of fascism in yet another state. Meanwhile, though plans for removal of troops is sought as a

method of relieving international tension, countries continue in their race for "preparedness." Italy sends 2,000 men to Libya, raising the Italian garrison there to more than 37,000. Mussolini plans to develop "citizen soldiers" by military training in the public schools. In London the government has announced it will conduct gas mask fitting trials on babies, at an infant's nursing home at Hawkhurst, Kent, so they may serve as models for masks for other babies in the event of an air raid. The French naval ministry is preparing to inspect its naval bases and coast batteries on the Mediterranean, due to concern over alleged Italian occupation of two of the Balearic islands. The Spanish civil war may be nearing an end, but its far-reaching complications and the dangerous "armed-camp" setup in Europe creates a situation which at best is not conducive to peaceful international relations.

NAT TOWLE SUNDAY NO ADVANCE—25 Cents In a recent engagement with his 15 colored artists. No advance—25c. At Midwest's Finest Ballrooms Dancing 8:30 to 12:30 Sunday

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NEWS PARADE by Marjorie Churchill

Spaniards 'Tired of Fighting.' Interesting side-light on the Spanish war concerns the frequent numbers of deserters who are "tired of fighting" and attempt to escape across into France. France has become "filled up" with the deserters and promptly sends them back across the border. Those arrested are given their choice of which side they wish to return to. Fear of being shot is in most cases greater than any high-flown ideas of patriotism to a cause, and the prisoner almost invariably replies with a violent outburst of unintelligible Spanish followed by "All right, I'll go to the other side." Like the participants in most wars, many of the soldiers don't know exactly what it is all about and are simply tired of fighting anybody any more.

New Taxes Indicated. Roosevelt warns that crop control legislation in the coming special session must not exceed planned expenditures. Additional taxation will be necessary, he says, if the cost of such control

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