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Work Of Da Vinci Shown In Popular Exhibit Including Nineteen Models

By SONIA MIZELL

The man who was born five hundred years too soon: Leonardo da Vinci. Beginning January 20, the inventive genius and foresight of da Vinci will be depicted in an exhibition of the 15th-century artist-scientist's work. The exhibit of nineteen models built from da Vinci's scientific and technical drawings will be on display in the University Union Parquet Room through February 10. It is on loan from the Department of Arts and Science of International Business Machines Corporation.

Included in the show will be retical ideas. Among them are a paddle-wheel ship, an idea that was not successfully developed until the advent of steam power in the 19th century; a theoretical gear system that produced three speeds of rotation, as in the modern automobile transmission; and a device for determining the tensile strength of wire, information as essential to the engineer five centuries ago as it is today.

Leonardo da Vinci was fascinated by the possibility of human flight, and devised many schemes for flying machines such as a helicopter and an ornithopter. In the ornithopter, the principal support and propulsion comes from

flapping wings. This idea is once again being seriously studied today. The ornithopter consisting of a lattice-like wooden framework, two moveable wings, and a series of ropes and pulleys was to be operated by the flyer, lying prone in the framework. Da Vinci also invented a parachute made out of linen that is said to have been used successfully.

As a leading military engineer of his times, da Vinci's designs are astonishingly close to military ideas that are used today. His machine guns, steam guns and breech-loading cannons represented tremendous strides in armament making, and many of his ideas plainly foreshadowed twentieth century developments. Perhaps one of his most startling inventions is the armored car, the ancestor of today's tanks which were not extensively used until World War I. His tank was equipped with breech-loading cannons and was completely maneuverable from inside. Its turtle-like cover was intended to deflect enemy fire.

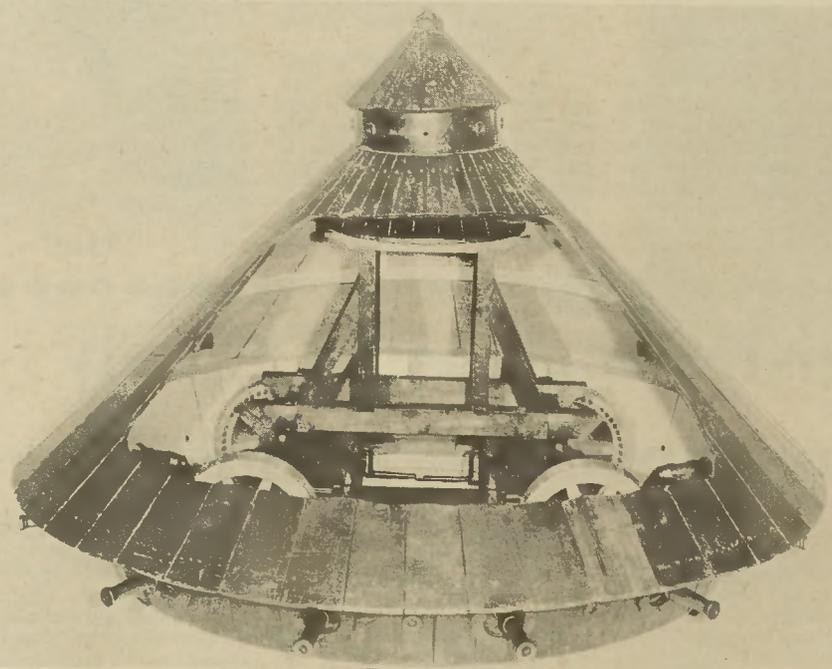
As a scientist and engineer, da Vinci was always concerned with accuracy and measurement. The show includes models of his designs for a hygrometer for measuring humidity, an anemometer for measuring wind velocity, and an inclinometer for determining the degrees of a slope.

In 1938, the city of Milan, Italy, held a great exhibition of the first full-scale reconstructions of da Vinci's works. It traveled briefly, and during World War II was completely destroyed by bombs in Tokyo. Another group of models, built in the United States after the war, was acquired by IBM in 1951 and incorporated into the company's touring exhibition program.

Recently the exhibition has been completely redesigned. The models, painted red, yellow, blue, and green are displayed with panels of explanatory material and sketches in such fields as mathematics, optics, botany, sculpture, music and city planning.

Four of the exhibitions are now touring the country on loan to museums, colleges, libraries and other educational and civic institutions. They are part of a touring exhibition program that includes both art and science shows. Last year IBM's touring exhibitions were seen in more than 150 cities throughout the United States.

The Charlotte campus of UNC has been waiting for this exhibit for about three years, and has finally managed to acquire it. It promises to hold an interest for many students on this campus.



MILITARY TANK: Da Vinci foresaw the armored tank, a vehicle not extensively used until WWI. His was equipped with breech-loading cannons, and was completely maneuverable from inside. Its turtle-like cover was intended to deflect enemy fire. (Model from a sketch by da Vinci. Collection of IBM Corporation.)

Chapter Of Alpha Kappa Psi Started Much Support Given By Students

By PARRY BLISS

The Business Club, which recently sponsored a barbecue on campus to raise funds for a charter fee for the new fraternity they are working to establish on campus, elected officers for the new organization at a December 18 breakfast meeting.

Dwight Herman is president, William Goodall is vice president, Earl Baucom is the secretary, and William Stewart is treasurer. Donald Sprouse will serve as master of rituals. The present Business Club advisor, Dr. Frank DeFelice, and Dr. W.D. Wubben will be faculty advisors for the new chapter of Alpha Kappa Psi.

At this meeting, the club ratified the constitution and by-laws of the organization.

Early in December, President David Herman mailed twenty petitions to the national headquarters of Alpha Kappa Psi. The petition, signed by thirty-one students, asked for a local chapter of the national business fraternity.

This fraternity is the oldest business fraternity in the country; it was founded in the School of Commerce, Accounts, and Finance at New York University in 1904. AKPsi not only encourages good scholarship by requiring that each student who desires to affiliate with the organization have and average not less than that required for graduation, but also emphasizes career guidance by featuring speakers on career subjects at professional meetings, regional conference, national conventions, and by articles in official magazines. Members are awarded points by scholarships

in the efficiency rating and each chapter is required to award the A.K.Psi scholarship award annually.

A.K. Psi helps develop the abilities and personalities of its members by the conduct of professional programs featuring authoritative speakers, social events, research and service to the school projects, industrial tours and other projects.

Chairman of the Student Activities Committee, Dr. John Robbins, says, in connection with the fraternity, "We (the committee) feel that Alpha Kappa Psi is the type of organization that we would like to see on campus and whole-

heartedly endorse its establishment here."

Administrative and faculty support for the new organization was readily available.

Dean of Students, Don MacKay, says, "The committee and this office will be most happy to work with you in any way we can in developing the fraternity on our campus."

Chancellor D. W. Colvard comments, "I am happy to endorse in behalf of the University the petition you are sending. It is our expectation that in the very near future our Department of Business will experience substantial growth and expansion."

'Peacenik' Speaks On Campus Will Refuse Draft Call

A man who plans to refuse to step forward on January 12 when he is called for induction in to the U. S. Army will appear on campus today to present his views on resistance to the war and draft.

Mr. George Vlasits, former Chapel Hill student, says, "The draft is intended to convey the impression to the young American

male that he is not personally responsible for the deaths of others as a result of military action. Thus the draft is a restriction on all individuals by forcing them into a situation in which choices are set without meaningful alternatives."

In conjunction with Vlasits refusal on Friday, college students intend to hold protest demonstrations in front of draft boards

throughout the state. In Charlotte, students from this campus, Johnson C. Smith, and Davidson will be on the picket line. Recent induction center demonstrations in Raleigh were considered successful.

Vlasits believes that he cannot participate in war. Being unable to conscientiously serve in the Armed Forces, he must now refuse induction on January 12 in Raleigh.

In his talk here today, he will state his position and answer student questions. In support of Vlasits position, some students from here will picket the Charlotte induction center Friday at 7 a.m. and 12 noon.

More information will be available after Vlasits talks and from members of Students for ACTION.

Flag Pole Given By Circle K Gov. Moore Attends Dedication

Circle K and Mr. and Mrs. Clarence O. Kuester have presented this campus with a flag pole which will be dedicated tomorrow at a ceremony in which several dignitaries, including Governor Dan K. Moore, will take part.

Representative Charles R. Jonas, who has given the University a national flag, will present that flag at the ceremony which is to be held in front of the Administration Building at 2:00 p.m. The state flag will be presented

to this campus by Thad Eure, N. C. Secretary of State.

Circle K obtained their part of the finances for the pole from a Halloween candy sale. There is a donor, in addition to the Kuesters, who asked to remain anonymous.

The service club has given the school two nylon flags for every day use so that the two original flags may be placed in the library archives.

All students are invited to attend the ceremony.



GEORGE VLASITS

Team Manager Loses Hair On Bet, See Page 2