OF TIME AND THE FUTURE
A Few Observations Called Forth by the Waning Year

THIS year of 1937 was probably the first in a good many in which every Alpha Rho Chi who wanted to work at architecture was able to do so. The pace established in the first half was sufficient to set every draftsman to dreaming of two chickens in the pot and for architects to anticipating two men on every board. That this activity wasn’t maintained throughout the year was a disappointment, however we will ignore the example set by the great and the near-great in 1930 by predicting that times will not be too bad. The architectural man of today is compelled to take a much greater interest in the economic scene than was his grandfather. In those mellow years, if the nostalgic articles we read can be taken for what they say, the carefree draftsman covered his beautiful Romanesque drawings to go home to a bottle of Chateau Something ’87, a couple of well-done quail, and an evening of contemplation of Ruskin or Gibbon. Now the least decline in car loadings sets us out for a copy of Business Week and to wondering if the job will last long enough to take care of the payments on the car.

The subject of Housing comes up often enough to encourage us to the belief that the profession may yet escape the fate of the theatre musician and the passenger pigeon. However it strikes us that the thinking been done on this subject is rather restricted in its scope. In saying this we hold no brief for our own thoughts on the subject which are probably best described as casual. All the articles we have seen speak in terms of so many million units of $4,000 or $5,000 houses; there never was anything in that type of business for any architect we ever knew and we don’t know how conditions have changed enough to make it come true now. There has been a certain amount of agitation for large scale housing as an investment for Social Security payments. This seems to us to have a considerable amount of merit. This would create a permanent type of program and would be a better form of guarantee that future payments to beneficiaries would be met. As the Social Security Act stands now it is entirely sincere in purpose but, as sympathetic critics have pointed out, a little sanguine about the future.

The future of Alpha Rho Chi is closely connected with the future of Architecture; it is part of our function to improve the position of both. At the present time there is not the demand on the part of the public for either our services or our product that there should be. If America demanded or desired its habitations in proportion to its demands for automobiles or radios (although this is stretching the analogy) the world would be a pretty wonderful place. An older friend of ours once remarked that in his lifetime he had seen the goal of a man change from a house, a wife, and a dress suit, in that order, to exactly the reverse.

The lack of agreement among architects themselves as to what is good architecture is possibly a contributing cause to this condition. One end of the block is English and the other is Georgian; across the street the novice and the jerry-builder try to outdo each other. The architect for the new courthouse leaves the bases and capitals off the pilasters, carves two eagles, one looking northwest and the other northeast, and considers himself very modern and enlightened. In the midst of all this the public finds its house in the Sunday newspaper; there is always a brother-in-law or the theatre musician and the passenger pigeon. However it strikes us that the thinking been done on this subject is rather restricted in its scope. In saying this we hold no brief for our own thoughts on the subject which are probably best described as casual. All the articles we have seen speak in terms of so many million units of $4,000 or $5,000 houses; there never was anything in that type of business for any architect we ever knew and we don’t know how conditions have changed enough to make it come true now. There has been a certain amount of agitation for large scale housing as an investment for Social Security payments. This seems to us to have a considerable amount of merit. This would create a permanent type of program and would be a better form of guarantee that future payments to beneficiaries would be met. As the Social Security Act stands now it is entirely sincere in purpose but, as sympathetic critics have pointed out, a little sanguine about the future.

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We started out to wish our membership a Happy New Year and ended by taking over the hall. As a matter of fact, when this issue comes out around the middle of the month that salutation will have worn a little thin, but you have the idea now. This is where we came in.
NEWS FROM THE CHAPTERS

Mnesicles
By ROBERT CALROW

Mnesicles chapter has not been sleeping. The whole chapter is working hard and we are forging ahead. This year the chapter is more prominent, both politically and socially, than it has been for some years. We have a fine bunch of pledges who we think are the pick of the crop. Our list for this fall is: Wayne Kief, Stan Johnson, Vernon Hamm, Walt Ziering, Wally Holm, and Gerald Bentow.

I want to introduce a new member of our chapter, namely "Mickey Moose," a fine ten point moose head which we won in a little football wager with the Iktinos chapter at Ann Arbor. This moose head has been receiving much publicity on the campus and newspaper shots of it have appeared in the Twin City newspapers. "Mickey" now resides in a place of honor on the library wall of the chapter house. In starting this friendly rivalry we of Mnesicles hope it will unite the two chapters a little more for years to come.

The basketball squad under the leadership of six foot six and one half Robb Kremer of Great Falls, Montana is really pitching in at practices in hope of taking the All Professional title and trophy as they did last season.

Homecoming for the Mnesicles chapter was a gala event. We wish to heartily thank the alumni chapter for the swell banquet and also their attendance at the homecoming dance.

While we are passing out bouquets, congratulations to Tom Frederickson, Bob Calrow, and Duke Johnson for their Homecoming house decorations. With their design and the loyal support of the rest of the fellows, Mnesicles won first prize and the much coveted gold cup of the House Decorations Competition. The design, incidentally, was a battleship (\textit{U. S. S. Minnesota}) breaking through a \textit{Look} Magazine cover and smashing into a raft \textit{U. S. S. Northwestern}). One of the leading newspapers submitted a picture of it to \textit{Look} Magazine, so "Watch the Looks go by," and perhaps Alpha Rho Chi will get some valuable national publicity.

As for the near future—we are preparing for our annual Bowery Party. This is the most popular party on our social calendar and we hope all the alums will attend for it's to be bigger and better than last year.

Demetrios
By PHILIP W. SWAIN

Demetrios is having a good year. We have nine pledges now and very good prospects for more. Socially, we have had one house dance each month and they have turned out to be very well attended affairs.

In our last letter mention was made of Nick Rutkay, guard on the football team. Nick won his letter this year and it is likely that Coach Schmidt is counting on him to take over a first string berth next year.

On November 22 Demetrios entertained the department faculty. We had a fine dinner and a good old-fashioned bull session afterwards. All but two members attended and they were detained by unavoidable circumstances. Messrs. Chubb, Sutton, Bannier, Smith, Morris, and Oman were there.

Anthemios

The news items below are partly from Richard A. Binfield, active, and George Fritzinger, alumnus.

A superior hey-hey Hay Ride Dance was held in the chapter house on Friday December 3. It was the liveliest dance held in many semesters and many of the usually sedate really cut loose. The men are getting around this year and almost every sorority was represented. Chaperones were Mr. and Mrs. Dick Hult and Mr. and Mrs. E. Cleland, Iktinos. Brother Cleland is working in the office of the Supervising Architect of the University and is a frequent visitor at the house.

Homecoming was as successful as last year. Thirty-three Anthemios alumni were present and two from the Iktinos active chapter came down for the game. We were especially glad to welcome two men from another chapter who pleased us by not rubbing-it-in after the Michigan victory. The highlight of the gathering was the presence of Mr. Francis J. Plym, Hon. '97, who attended all of the meetings and is truly a real brother and general good fellow.

The decorations won the University's cup for second place. (See cut in this issue.) Something new has been thought of for sleeping accommodations—the Indianapolis gang brought their beds with them. The Chicago crowd showed up in good numbers. Milwaukee was well represented, and several others who hadn't been back for a long time were present.
THESE WON PRIZES

Homecoming decorations become bigger and better

BACK in the days before college bands reproduced sonnets and animated cartoons between the halves, Homecoming decorations consisted of fifty yards of bunting and “Hello Gang” painted on a piece of wallboard. That has been changed. At the left Anthemos, at the right Andronicus. The inscription on the Anthemos structure is “Welcome Alumni, Illinois-Michigan,” (We don’t know what the numbers signify.)

SUCH AS IT IS

Odds and ends from the Editor’s desk; a column created out of necessity, but not guaranteed to last the winter.

SCRATCH an architect and you uncover a columnist. At a matter of fact we have always had a desire to write a column; it seems so easy to make three or four dots when one gets out on a limb, grammatically... and to be able to set down unrelated facts, incisive bits of wit and comment, and become known as quite a fellow. We suspect there is more to it. As we write this the November issue is just coming through the mail; what started out to be our magnum opus, a cut or two below Fortune, turned out to be a four page issue, similar to the reading matter the chain stores glue under your windshield wiper on a rainy afternoon. We had no breathing spell between the first two issues. There may not be much chance for advancement in this job, but it is certainly steady.

- As we suspected, the biggest deficiency is found in the lack of alumni news. Our constant hope is to pick up a newspaper and find that some obscure brother has rescued twenty people from a burning building or has flown non-stop to Australia. One of the boys in the office suggested, tongue-in-cheek, that we invent such news; alternate issues would be well filled with denials. This seems to us to have certain advantages. Be warned then: we have no fear of libel suits as our property is in a very liquid condition and the possibilities are many. We suspect, however, that when the next deadline rolls around we'll be filling space on some subject as “Don’t Be a Broken Bar in the Slab of Life” and put you right back to sleep.

- Private grouch: the various “bowl” games on New Year’s Day. There were about four more this year it seemed—about all the possibilities remaining are the fish bowl and the wash bowl. The Pittsburgh team obviously felt the same way.

NO INTEREST, NO PRIZE

LAST spring the Grand Council offered two prizes of $25.00 each for the best essays submitted on the subject “What does society demand of the architect.” Probably only two persons are wondering what has happened to the contest as this excerpt from a recent letter from the W.G.A. will show:

“The essays were so few in number (two) that to date we have not felt like carrying out the terms of the contest... Of course, if we can obtain a representative series of essays of sufficient value we will be only too glad to complete the contest and to add to it other features which we originally had in mind.”

It seems as though the generous prizes offered, at least, would have stimulated more interest than this. Or, it may be that our membership is so radio-conditioned that we should have had them write it on the cover of an old Arch (or reasonably accurate facsimile). Seriously, though, was the subject a little too ponderous or vague? Let’s have your comments, either to the Editor or to Dwight P. Ely, W.G.A.
This and That About the Alumni

Iktinos

Richard W. Ware, '20, was married to Mrs. Marion Masters on August 25, at Los Angeles. They are at home at 1681 La Cresta Drive, Pasadena, Calif.

Lee Cochran, '36, is living at 2222 Orrington Ave., Evanston, Ill. Lee worked in Midland, Mich., the year following his graduation and is one of the Editor's favorite people. His hobbies: H. G. Wells, and the State of Colorado.

Anthemios

Kenny Helms, '26, is working for the TVA under Harry B. Tour, '21, at Knoxville. He is living at 1847 Laurel Ave., Knoxville. (The Editor's room mate during Chicago days if you care for statistics.)

Ray Olson is now living at 906 W. Union St. Jackson, Mich., where he works with Harold Parr, '21, for the Commonwealth and Southern Co. (We'll have to get down to see some of these Michigan people sometime.) Incidentally, Harold Parr is to be addressed at 734 W. Morrell St., a new address.

Bill Keck, '31, was recently married and is living at 5551 University Ave., Chicago. Bill didn't send us an announcement so we can't give any of the details. He is associated with his brother, George Fred Keck, Anthemios, in the general practice of architecture.

W. S. Arasmith's office is in charge of design on a new program of hospital and penitentiary groups for the State of Kentucky.

John S. Bartley, '16, is plant engineer for the Rath Packing Co. of Waterloo, Iowa; he is in charge of all building and maintenance.

Gale M. Bergman '25, is special agent for the Northwestern Mutual Life Insurance Co. in Tulsa.

M. E. Dunlap, '14, is working in the Forest Products Laboratory in Madison, Wis. His title reads "Senior Engineer in charge of heat transmission and moisture condensation in walls of residences." We mean to find out for the Arch whether it does or does not condense; we have had both answers, usually depending on who was selling what.

Russell P. Burke has a novel occupation: buying, selling, and renovating feathers, mattresses, etc. By not referring to this as a soft job we consider ourselves a candidate for the Pulitzer Prize.

John R. Tanner, '16, writes from 1618 Michigan Ave., Miami Beach, Fla., to the effect that this is his new address.

Don Jordan, '35, was recently married to Miss Mary Colburn.

Demetrios

William T. Halligan, '33, now lives at 267 Belvidere, Columbus, Ohio.

Charles R. Keller, Jr., is a prominent cartoonist, appearing in Collier's Magazine and elsewhere. We mean to publish more information in an early issue.

Melvin C. Josephson, '30, is located at 1007 Tower Building, Jackson, Miss.

Andronicus

William E. Jenney, '31, lives at 5713 Lindley Ave., Tarzana, Calif.

Julian E. Garnsey, Hon., gives a new address: Rm. 1203, 71 West 45th St., New York City.

The Oath of an Alumnus

Condensed from "The Anthem" of Anthemios

I solemnly and sincerely promise and swear that I will always uphold and honor Alpha Rho Chi by coming back to every Homecoming and to at least three dances each year, and bringing with me my wife, sweetheart, or someone else's, and three other people and a dog, all of whom are to be entertained during my three day stay; to sleep comfortably in innerspring mattresses and to dine at nine, two, and eight. I agree to make myself comfortable in the room which has the best radio, fastest electric shaver, and the latest issue of Esquire and Coronet, however the selection of ties, shirts, cookies, or homemade cake may have some effect on my judgment.

Fully realizing that it would be a breach of etiquette to offer my host any remuneration for my party's keep, I promise to leave between the hours of one and six a.m. while the W.E. is sleeping so that there will not be the slightest chance of my disobeying Miss Emily Post.
Mr. Francis J. Plym, Anthemios Honorary Member, Makes Additional Gift to the University of Illinois

From the Illinois News, publication of the Illinois Foundation

About $15,000 Added to Scholarship Fund in Architecture

A gift of $15,000 in securities has been made to the University by Francis J. Plym, '97, of Niles, Mich., to create a fellowship in architectural engineering, it is announced by Rexford Newcomb, dean of the College of Fine and Applied Arts.

A number of years ago Mr. Plym gave the University a fund to provide a scholarship for a student in architectural engineering. The annual fund has amounted to between $600 and $700, depending on the amount of earnings of the securities donated for that purpose. The new contribution increases the annual fund to about $1,200.

Mr. Plym said in a letter to Dean Newcomb that he had been intending to increase the amount for some time. His list of securities are of the kind which it is felt certain will bring a steady earning available from year to year.

Mr. Plym's gifts to the University also make possible three prizes for the best work of students in architectural engineering. Three prizes are open to seniors whose work, attitude, and ability are judged the highest. The prize for summer sketches is awarded to the student who makes the most acceptable free hand sketches during the summer. A prize for sketch problems is offered student architects in the department during the school year.

A $700 annual scholarship for a foreign student in that department is offered through the Plym gift.

TWO BOOKS IN BRIEF

ARCHITECTURE AND MODERN LIFE

By Baker Brownell and Frank Lloyd Wright. Harper and Brothers, $4.00.

Our foremost architect and a well-known University professor combine their efforts to bring out a book in which a great many phases of our lives in America are discussed and remedies proposed. Each has written several chapters independently and they have combined to write several. The result is more even and consistent than one might expect although an occasional contradiction appears and the authors recognize this in a postscript.

Mr. Wright of course looks to organic architecture to solve our besetting problems and assumes that life might very well develop parallel to it. Professor Brownell pleads for a return to a more integrated form of life, away from the cities and closer to the soil. He finds in such endeavors as TVA (he describes Norris, Tenn., at considerable length and finds it good) a hopeful sign for the future. He is at his best, in our opinion, when he describes various trips and excursions around the Middle West, bringing out his sociological ideas on this background. Incidentally, we have often pondered on the fact that it takes an urban philosopher to interpret the rural scene. The people who live there quite generally take the view that it is the best place they know to make a living — a living they consider to be somewhat precarious. We can work up a nostalgia for that life on as short a notice as anyone, but the overwhelming threat of ten cent corn is as real there as the shadow of unemployment is in the metropolis.

Mr. Wright is most interesting when he is discussing his ideas of architecture and his experiences. He admires Persian, Mayan, and Japanese architecture and his rightful contempt for the eclectic hodge-podge that we have let ourselves in for is no less stimulating for our having heard it before. His account of the building of the Imperial Hotel in Tokyo is superior writing and highly instructive; his analysis of that problem alone should give him an audience whenever he wishes one. His admiration for Japanese culture is presented at an unfortunate time; most readers may prefer a few more hot-dog stands for the sake of a few less bombing planes.

A book of such broad principles should perhaps not be criticized in detail which inhibits such comment as we are inclined to make on such proposals of Mr. Wright's as replacing the garage with a "Carport." Anyone who has driven away in a car that has stood out all night, the windows frosted, the springs groaning, and the crankcase oil about like cake dough might prefer the old fashion garage, even though it serves most families more as a storage place for the screens, old galoshes, and the furniture from the summer cottage. But this is a detail. Mr. Wright has maintained his principles in the face of disinterest and even ridicule for a lifetime. He is either right or as wrong as any man has ever been. We think he is right; we commend this book to you with the thought that you will reach the same opinion.

ACADEMIC PROCESSION

By James Reid Parker. (Harcourt, Brace, $2.00.)

Here is a book you will really enjoy. Those who have been ten years or more off the campus and who find their recollections of it informed by a certain maladvent will be reassured that the faculty politics and intrigues still go on. Here are all the characters you used to know; the instructor who is a little too progressive for his associates, the professor who is somewhat susceptible to flattery, the faculty humorist and so on. All are presented with an easy good humor which makes for as pleasant an evening of reading as we have enjoyed in a long time. Mr. Parker must be on the faculty of a large state university or, if he is writing from his memory as a student, has had access to a good deal of information which most undergraduates can only get from such a source as this. We hope he was able to keep his job after his associates had read his book and tried to figure out just how much he had them in mind.

The only character we could have added from our own academic memories is that of a certain elderly professor of classical subjects who hadn't brought his notes up to date since the 90's and who, as late as 1925, at least, spent an hour lecturing the girls in the class on the evils of "tight lacing."

HAVE YOU MOVED

The Banta Publishing Company has taken over a considerable part of the work that was formerly done by Circulation Manager Moorman. All addressing and mailing is now being done from Menasha, Wis. When you move, send the Managing Editor your old address with your new and your copy of the Archi will reach you without delay.

At the present time we have perhaps as many as two hundred names of members who are entitled to receive the Archi and who are not getting it because their whereabouts are unknown. These are from other chapters than Anthemios, the recent directory published by that chapter enabling us to correct the addresses of their alumni. If you know of any Alpha Rho Chi who should be receiving the Archi and is not, send us his name and address. To alumni groups who meet occasionally; make an announcement to this effect. It is not practical for the Managing Editor to do a lot of G-Man work in bringing this list up to date although we run through the list occasionally in the hope that on a name or two we may become psychic.
RETIRES AS CIRCULATION MANAGER

Frank S. Moorman, Mnesicles '22

EVERY few ARCHI subscribers can remember a time when Frank S. Moorman was not the circulation manager of the publication. There never was a great deal of glory attached to the office; those who read through to the fine print at the bottom of the last page noticed a postal entry at St. Paul and probably thought little more of it. There was, however, a great deal of work being done at this place. Files to keep, lost addresses to run down, and finally, the entire issue to mail each time made a total of work that must have become very tedious. For his dozen years of service to us we are considerably in his debt.

Brother Moorman is a member of Mnesicles chapter, class of 1922. He is in the investment business in St. Paul. The cut we have of him in our files and which appears above is, we suspect, an old one. If it seems a little youthful to those who know him we suggest that it is probably no younger than he feels, now that postal regulations, publication dates, and returned copies are all part of an old job well done.

Buford Pickens, Anthemios, Now Teaching in Ohio

Mr. Buford L. Pickens, who has to his credit five years of practice in architecture in Chicago, is now instructor in History of Art and Architectural Design at Ohio University in Athens, Ohio. He spoke at the Introductory session of the annual meeting of the College Art Association at the University of Chicago, Friday morning, November 5. The title of his paper was “The Ogival Arch in Tuscan Architecture Prior to Gothic Influence” and he said, in part:

“Historical research in the field of Gothic Architecture has been directed, for the most part, to the development of structure and decoration in religious building. The notion that the pointed arch and its derivative forms are peculiar characteristics of the French Gothic style and, at least in western art, are not to be dissociated with it seems to be generally accepted. However, this conception is not entirely valid, and its prevalence has prevented students from seeing the independent development those forms had in Tuscan cities, free, at least for over a century, from the influence of the northern style.

“Turning to a study of the medieval secular architecture in Italy, and especially to the city house and town palace of Tuscany, we find that the builder was concerned at an early date with a unique problem arising from social and economic conditions. In his solution he adopted the pointed arch for its structural advantages, retaining at the same time the traditional round and segmental forms for decorative usage. ... The great Cathedral of Pisa was begun in 1063 in celebration of, and with the spoils from the capture of Palermo. The isolated use of the pointed form for the triumphal arch under the dome of the Cathedral demonstrates the early familiarity with the ogival arch and implies a preference based on structural and aesthetic considerations. Following the conquests of her powerful fleet, Pisa enjoyed an expansion of trade in eastern markets, and a rapid growth of population at home. Building space within her walls was restricted to small areas, and the city expanded vertically. The notoriously weak sub-soil of Pisa contributed further to the form of the resulting tall house type. The unusual feature, however, of this eleventh century Pisan tower house is the adaptation of the pointed arch to a kind of skeleton pier construction in stone. Originally, we believe, this system was used in independent single bays, referred to by contemporary chroniclers (c. 1150) as casa turris. Later, however, repeated bays were employed in the same building introducing a verticality surprisingly Gothic in its aspect, but entirely without recourse to northern building methods. No attempts seem to have been made by the Tuscan builder to capitalize on this new vertical effect beyond the natural contrast of the brick infilling to the stone skeleton. Horizontal wood balconies, prevalent at the time, negated even this slight emphasis. The pointed arch and the regularly articulated bay system in plan and facade were carried from private houses in Pisa to the later town palaces in other Tuscan cities. The Palazzo del Podesta at Florence whose tower existed before 1254, shows the distribution of the ogival arch, already with Italian variations, even though it rejects the verticality of the system originated earlier at Pisa. It seems possible that the Palazzo Pubblico at Siena may owe quite as much in its complete acceptance of the pointed arch and regular bay-on-axis facade scheme to the native Tuscan developments as it does in certain details to the northern Gothic emanating, perhaps, from the nearby Cistercian abbey church at San Galgano, founded c. 1224.

Professional Fraternities

The Professional Interfraternity Conference, of which Alpha Rho Chi is a member, has recently published a booklet which contains a history of the development of professional fraternities, their present objectives and activities, and information regarding each individual fraternity. This booklet will be sent to anyone interested in receiving it. Address Mr. H. G. Wright, Secretary-Treasurer, 222 West Adams St., Chicago.
RECOLLECTIONS OF SHIPBUILDING

By R. J. Pfeiffer

EDITOR'S NOTE: From time to time the Arch has presented articles by members whose training in architecture has taken them into work a little out of the ordinary. R. J. Pfeiffer, Anthenians '24, worked for two years for a prominent shipbuilding company. Although he has left this work to return to the kind of work he formerly did, his comments below lose nothing in interest.

Hopeman Brothers, Inc., New York City, had the contracts for the four "Santa" ships of the Grace Line and three ships for the Matson Navigation Company. Our work included all work and materials, after the steelwork and mechanical work had been completed, to fully equip and complete the ships. Hopeman Brothers were experienced boat builders, having done work for the Cramp Shipbuilding Company of Philadelphia for many years. We worked with our two large woodworking plants located at Rochester and Philadelphia.

The "Santa" ships were sister ships as well as were those for the Matson Line. Some of the furnishings and the color schemes were changed on the various boats—otherwise the ships for the same line were identical. The office figured about one year's time for each group of boats. We had thirty-five draftsmen working in two drafting rooms. Our biggest job was to fully equip the boats to meet their sailing dates.

The plans supplied us by the naval architects were at one-eighth and one-sixteenth inch scale. The state rooms were shown and the disposition of the public rooms. We designed, with the associate architects, all the rooms on the boat, Warren and Wetmore were associated with us on the Matson liners, and John Russell Pope for the Grace liners.

The greater share of my two year's work at Hopeman Brothers was spent on plan and design. Each man was completely responsible for his deck of the boat. Our tables were about twenty-five feet long and four feet wide. The plan was drawn at one-half inch scale in ink on tracing cloth. The Matson liners, slightly larger than the "Santa" ships, are 769 feet stem to stern and 79 feet at the midships beam section. The stem and the stern were laid out on separate drawings, but the remainder of the ship was on one sheet.

After tacking the tracing cloth to the table we stretched a steel tape at the center to plot the center line and establish the frame lines. All measurements of a boat, fore and aft, are given in relation to the numbered frame lines—the dimensions abeam the ship are given from the center or lubber's line. The frame lines are the locations of the backs of the deck channels and vary from nine to twenty inches. We next drew the shear curve. These points were given us by the steel company, and ran from 0'-0" midships to 9'-6" at the stem and 7'-6" at the stern. The shear curve gives the slope of any location of the boat parallel to the lubber's line. The camber curve followed for the cross beam section. This varied from 0'-0" at the center of the boat to 1'-0" at the edge of the ship—this being for the midship section. These figures are for the larger boats. Now we were ready to lay out the state and public rooms. All woodwork parallel to the run of the ship follows the shear curve, and woodwork crossways of the boat follows the camber curve. All decks follow these curves—which necessitated a great deal of figuring and some headaches on our part.

As working plans for reference we used plans from the naval architect, the associate architect on the public rooms, and the steel company drawings showing plans, elevations, sections, expanded plate sections, heating layout, ventilation, plumbing, electrical work, water and fire lines.

Partitions for the state rooms are one and one-eighth inches thick for the larger wall panels and seven-eighths inches for the smaller panels. All ceiling panels throughout are removable of plywood or veneer. All woodwork is screwed or bolted—no nailing. Mouldings and trim is usually of birch. All woodwork is fireproofed. The floors of composition magnesite are poured direct onto the steel deck and carpet laid over this in most of the rooms. The decks in these ships are teak, bolted to the steel plate, caulked and plugged.

The panels for the state rooms for each deck are numbered—located fore and aft of the frame lines. The size is figured to within one-half inch with allowance for camber and shear.

The public rooms are handled much the same as a building interior. All details are full size, with no break lines. We used many different woods for pattern in the public rooms and some of the first class quarters.

Every room in these boats, with no exception, has forced ventilation. The air supply is usually by means of a punkah louver near the center of the room, and the exhaust through a grille in the door into the corridor where it is pulled out through the ceiling.

The Grace liners were built complete at Kearney, New Jersey with steel work by the Federal Steel Company. The Matson boats were built at Quincy, Massachusetts with steel work by the Bethlehem Steel Company.

Other than the New York architectural force Hopeman Brothers employed about 600 men in the shipyards installing our woodwork and furnishings. The boats were launched after the steel work and mechanical equipment was finished and towed to our pier nearby for our work.

Each ship is in no respect inferior to any ship afloat. They necessarily were built with every known device or design to insure comfort and safety. The Grace Line ships operate between New York and South American and California ports. A large part of their travel is in winter cruises. A distinctive feature of them is in the roof of the ballroom which can be rolled back to permit "dancing under the stars," an idea developed for this line and stressed in their advertising. The Matson ships are in the Australian service.

When we began figuring the carpet by the square mile, counting grand pianos, and listing the beds we knew that the group of ships was nearing the end. My last job was fulfilling the names for them. I had practically memorized two sets of ships from stem to stern, keel to pilot house, including details for a gold bullion storage, liquor bars, chart rooms, lounges, swimming pools, libraries, and valet rooms; in fact, almost every adjunct of the most luxurious travel.
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