

The A.S.H.E. SCANNER

VOLUME XII, No. II

THE AMERICAN SOCIETY OF HIGHWAY ENGINEERS

DECEMBER 1975

PLAN TO BE THERE - "WHERE"

14th Annual Convention - Bedford Springs, Pa.

May 13-14-15-16, 1976

National Treasurer George K. Hart Dies



George K. Hart

It is our sad task to report the death of our National Treasurer, George K. Hart, on October 2, 1975, at his home in Cogan Station, Pa. George had not been in the best of health for some time and died of a heart attack while sitting in his living room.

George is survived by his wife, Maye, and three sons, Reverend Thomas Hart, David and John.

At the time of his death George was associated with New Enterprise Stone & Lime Company in the capacity of Vice President. He was a charter member of the Williamsport Section.

His efforts to further the growth of our Society will be a great loss to all of

us; we will miss him in many ways.

It is the wish of his family that if any one desires to remember George, a donation to "The George K. Hart Memorial Fund" be sent to: Reverend Thomas Hart, Parsippany Christian Church, 205 Vail Road, Parsippany, New Jersey 07054. †

DELAWARE VALLEY SECTION

John M. Evans, Public Relations Chairman

"Politicians, environmentalists, planners and the media all favor mass transportation, while only the masses oppose it", explained Bernard C. Meltzer, Philadelphia Planning Commission Chairman, to the 90 persons in attendance at the October 22 meeting of the Delaware Valley Section.

Meltzer maintained that people obviously prefer the personal freedom and mobility which accrues from automobile ownership. The adulation of mass transit he believes, is a phase which we must outgrow and it may take 10 years for this to happen.

Meltzer highlighted the history of city planning in Philadelphia and then addressed himself to the mass transit vs. highways controversy, which has received great attention in the Philadelphia media.

Meltzer, who himself is a local radio personality and newspaper columnist, opined that no mass transit system ever devised has begun to pay for itself. The heralded Lindenwold Line, which runs between Philadelphia and several south Jersey suburbs, would have to triple its fares in order to recoup the original financial investment, he said. †



President's Message

Atwood L. Welker, Jr. P.E.
Williamsport, Pa.

It is with sad heart that we have to report the loss of one of ASHE's most loyal supporters. George Hart gave unselfishly of his time to promote both ASHE and the highway industry. His tenure as treasurer has led to a financially stable organization. George will be sadly missed.

At the National Convention in Philadelphia last May, Dave Sims stressed to the membership the importance of becoming involved in the current problems facing the highway industry both on the National and Statewide level. The most effective and easiest way is to write your Representative a letter when important decisions are to be made. If each of our 2000 members would have written during the recent debate over the gas tax, possibly some legislators would have thought differently. Unfortunately, most legislators receive few constructive letters on prospective legislation. Not much consideration is given when they receive form letters and correspondence from lobbyists. Thus, it is imperative that the silent majority no longer be silent. Voice your opinion, become involved BEFORE IT'S TOO LATE.

—Atwood L. Welker †

Seasons Greetings

At this time the Officers and Directors of this Society extend to all members and their families the hope that each and every one will have a Joyous and Happy Holiday Season, with only good health and happiness throughout the coming year. †

TRANSPORTATION RESEARCH BOARD NEWS

RESEARCH BOARD'S 55th ANNUAL MEETING IN WASHINGTON, D.C.

The Transportation Research Board of the National Academy of Sciences — National Research Council has announced that its 55th Annual Meeting will be held in Washington, D.C. during the week of January 19–23, 1976, at the Sheraton-Park and Shoreham Americana Hotels. †

STUDY OF TRAFFIC SIGNAL CONTROL SYSTEMS TO BE MADE BY SAN FRANCISCO FIRM FOR NCHRP

JHK and Associates, a San Francisco transportation and traffic consulting firm, has been awarded a \$100,000 contract by the National Cooperative Highway Research Program (NCHRP), which is administered by the Transportation Research Board. The project, designated NCHRP Project 3-18(3), FY '75, is designed to develop and demonstrate a practical total-system cost-effectiveness methodology to compare and evaluate different systems of traffic surveillance and control for signalized street networks.

Alternative systems range from very simple pretimed control methods employing little or no traffic sensing to highly complex systems using closed-loop traffic-responsive control with extensive sensing. Such traffic control has been advanced significantly by the development of digital computer technology and by reduction in computer costs.

Past methods for evaluating the merit of alternative traffic surveillance and control systems for signalized streets have relied, to a substantial degree, on subjective ratings based on engineering judgment. The NCHRP project is intended to correct this situation through the development of an improved systematic procedure.

Work on the project is expected to be completed by July 31, 1976.

The NCHRP was created in June 1962 as a means to accelerate research into particularly acute problems affecting highway transportation on a nationwide scale. It is sponsored by the American Association of State Highway and Transportation Officials in cooperation with the U.S. Department of Transportation's Federal Highway Administration.

The Transportation Research Board evolved from the Highway Research Board which was organized in 1920. It is a cooperative organization of professionals

from government, the academic world, and industry. The Board's purpose is to advance knowledge of the nature and performance of transportation systems and their interaction with society through the stimulation of research and the dissemination of information resulting from research.

The Board operates within the Commission on Sociotechnical Systems of the National Research Council, which serves both the National Academy of Sciences and the National Academy of Engineering. †

REPORTS ON LOW-VOLUME ROADS, FROST PROBLEMS NOW AVAILABLE IN NCHRP SYNTHESIS SERIES

Two new publications in the "Synthesis of Highway Practice" series are announced by the National Cooperative Highway Research Program (NCHRP), which is administered by the Transportation Research Board. They are:

Roadway Design in Seasonal Frost Areas. SYNTHESIS OF HIGHWAY PRACTICE 26. 110 pp. \$6 (ISBN 0-309-02307-6). The report discusses the problems caused by seasonal frost in pavement foundations, resulting in pavement heaving and cracking, and the factors that interact in freezing and thawing situations, including climate, soil, water, pavement structure, and traffic. Information from highway departments throughout the country is analyzed to provide data on identifying frost susceptibility and selecting measures to prevent pavement damage.

PCC Pavements for Low-Volume Roads and City Streets. SYNTHESIS OF HIGHWAY PRACTICE 27. 38 pp. \$3.60 (ISBN 0-309-02309-2). Portland cement concrete pavement has been looked at historically as premium pavement for use principally where high volumes of traffic are to be expected. Synthesis 27 offers information on another type of use; portland cement concrete pavement for rural highways and city streets that are to serve low volumes of traffic. Detailed information is included on planning, designing and constructing portland cement concrete pavements for light traffic conditions, based on experience accumulated during the past 20 years by a number of agencies that have used this type of pavement for low-volume facilities.

These publications are available from the Transportation Research Board, Publications Department 805, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. (Payment in advance is required on orders of \$7.50 or less.) †

SKID RESISTANCE, BUS USE OF HIGHWAYS COVERED IN TWO PUBLICATIONS FROM NCHRP

The National Cooperative Highway Research Program (NCHRP), which is administered by the Transportation Research Board, has published two reports in the NCHRP Report series. Titles are:

Determining Pavement Skid-Resistance at Intersections and Braking Sites. NCHRP REPORT 154. 70 pp. \$4.40 (ISBN 0-309-02306-8). Discusses instrumentation and procedures for determining pavement skid-resistance requirements at intersections and other braking sites. Data can be used to determine the relative skid-resistance requirements (normal, intermediate, or high) for specific braking sites, and to study existing problem sites in terms of probable causes of accidents and possible corrective measures. Prepared by the Franklin Institute, Philadelphia, under contract to NCHRP (Project 1-12, FY'70).

Bus Use of Highways: Planning and Design Guidelines. NCHRP REPORT 155. 166 pp. \$7.60 (ISBN 0-309-02308-4). Prepared by Wilbur Smith and Associates for NCHRP (Project 8-10, FY '72). The report contains guidelines for planning and designing preferential bus facilities relating to freeways, arterials, and terminals. Details are included on methods for the employment of bus priority measures that include preferential bus lanes and ramps, traffic controls for smooth, uncongested flow; loading points and shelters; and park-ride lots. Also included is a discussion of bus fares, parking supply and rate adjustments, and enforcement of bus priority treatments.

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USING EMULSIONS FOR PAVING CAN SAVE ENERGY, SAYS REPORT

Over 300 million gallons of petroleum products that are in critical supply could have been saved annually if emulsified asphalts had been used in 1972 and 1973 in place of cutbacks. Further energy savings could have been realized by using, whenever practical, cold or ambient temperature mixes to replace hot mixes.

These conclusions are contained in NCHRP SYNTHESIS OF HIGHWAY PRACTICE 30, 76 pp. \$4.80. (ISBN

Continued on next page.

0-309-02337-8). **Bituminous Emulsions for Highway Pavements** recently published by the Transportation Research Board. The funding for the report was provided by the American Association of State Highway and Transportation Officials and the Federal Energy Administration.

Emulsion asphalts have been available for over 70 years, but their use has not been extensive or widespread, says the report. This has been due in part to the absence of specific design information and construction specifications and instruction. The Synthesis addresses each of these areas.

It was prepared by a team of five consultants with assistance from an advisory panel of 17 selected experts, and may be considered the most up-to-date and comprehensive publication on the use of emulsions in highway pavements.

NCHRP SYNTHESIS 30 is available for \$4.80 a copy from the Transportation Research Board, Publications Department 805, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. (Payment in advance is required on orders of \$7.50 or less.)

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†

CLEARFIELD SECTION

The guest speaker for the September dinner meeting was John Gilliland, who gave an informative talk on "No Fault" Insurance.

In October the program for the dinner meeting dealt with financing highway

construction and maintenance for roads and streets owned by Municipalities. The guest speaker was Paul Knepp, Pennsylvania Department of Transportation's Regional Director for Municipal Services.

In September the Clearfield Chapter published the first chapter newsletter which covered items of interest pertaining to ASHE and the highway industry in general. This newsletter will be published quarterly in an effort to stimulate interest within the current membership and to help recruit new members.

Two (2) new members were enrolled in the Clearfield Chapter.

NEW MEMBERS

Arthur K. Redden, Clearfield, PennDOT
Charles L. Balocco, Curwensville, PennDOT.

†

WILLIAMSPORT SECTION

Robert Butters, P.E., Public Relations

At our September meeting, Mr. Robert Gladstone, representing The Reinforced Earth Company, gave an informative slide presentation of the Reinforced Earth Technique to stabilize embankments. This method depends upon friction between the earth backfill and the horizontally placed metal reinforcing strips to provide a stable earth mass. Pre-cast concrete or metal facing panels, to which the metal strips are bolted, provide an attractive appearance to the structure. Principal advantages of this type of construction are the ease and speed with which a structure can be constructed utilizing standard equipment, simple construction techniques, and readily available materials.

Robert Mueser, P.E., Deputy Chief Highway Engineer, was the guest speaker at the October meeting. Mr. Mueser discussed the activities of the APC-PennDOT Liaison Committee. This committee is composed of representatives of APC, PennDOT, and the FHWA, whose primary function is to correct problem areas between PennDOT and contractors. Mr. Mueser related the need to form such a committee and discussed some of the more recent problems.

On a sad note, the section regrets the passing of Mr. George K. Hart on October 2, 1975. George was instrumental in forming the Williamsport Section in 1968. He held many offices in the section, including Secretary (1968-71) and Director (1972-73). He was Co-chairman of our 1973 National Convention. He also served at the National level as Secretary and was on the Nominating Committee. His unselfish dedication to ASHE will be greatly missed.

†

FRANKLIN SECTION

The September meeting of the Franklin Section of ASHE was held at the Mercer Golf Course Club House Restaurant and was hosted by Cliff Seidle. A delicious steak fry preceeded the regular business meeting. President G. G. Smith, at the business meeting, requested that the membership endorse the Franklin Section's action in initiating a drive to establish a section ASHE in the State of Ohio. The members attending the meeting, heartily endorsed the action, and a dinner meeting was tentatively arranged for October 29, 1975 between Franklin Section Officers and interested persons in the Highway Industry from Ohio and the Ohio Department of Transportation.

New members Robert Tischler, Cornelius Deal, William Robertson and James Brown were introduced by President Smith.

President Smith announced that the Section's annual Ladies Nite would be held at the Sheraton Inn on Traffic Route 18 at West Middlesex near the Interchange between I-80 and Traffic Route 18.

Following the business meeting, Dave Irwin, Program Chairman, introduced to the members present Representatives Reid Bennett and Roy Wilt. Both Mr. Bennett and Mr. Wilt are members of the State Legislature and represent areas within the Franklin Section's geographical boundaries.

They discussed proposed changes in the Motor Vehicle Code, Legislation pending on gasoline tax increases and increased vehicle registration fees. Mr. Wilt is a member of the House Transportation Committee and was of the opinion that the Motor Vehicle Code Revision would probably be brought out of Committee and acted upon in the Spring of 1976. Both Mr. Bennett and Mr. Wilt were positive that the proposed gasoline tax increase legislation would be out of Committee and on the floor within a week or two.

A lively discussion was generated by questions fielded from the members directed to Messrs. Wilt and Bennett. This proved to be very informative and considerable dialogue was developed between the members and the Representatives.

The October meeting of the Franklin Section was held at the Jackson Valley Country Club near Warren on Wednesday, October 15, 1975. The dinner was hosted by Fred Binz.

Continued on next page.

good form, made the presentation of the "Past Presidents Plaque" to Eb Kinter during the sit-down dinner.

Topping off the evening's festivities was a fine stage performance by Joey Heatherton, the nationally acclaimed screen and TV personality.

As usual, Mel Stewart, our "affable but influential" Treasurer and Dinner Chairman, did an outstanding job of arranging the details for this event which was thoroughly enjoyed by all.

The Pittsburgh Section meeting for the month of November was jointly sponsored with the Pennsylvania Society of Land Surveyors. The meeting was held on November 12, 1975 at the Parkway Terrace Restaurant, Four Parkway Center and was the second of what is hoped to be an annual get-together with the Surveyors' Society.

It is gratifying to note that this joint meeting was well represented by both organizations — 64 ASHE members and 36 land surveyors.

State President Howard Hartman and Vice President David Naylor were present to represent the Pennsylvania Society of Land Surveyors.

The speaker for the evening was William Kozy, P.E., Structural Engineer for Michael Baker, Jr., Incorporated, Consulting Engineers from Beaver Falls, Pennsylvania.

Bill Kozy's program consisted of a very interesting and enlightening slide presentation on the construction and design of the Alaska Pipe Line, showing the very unique and diversified problems associated with this project.

The 48" diameter oil transmission line is being built in the State of Alaska by the Alyeska Pipe Line Company, a consortium of several major United States oil companies.

Mr. Kozy spoke on some of the critical factors that had to be considered for its design and construction. Problems involving extreme cold climate, earthquake loads, environmental considerations, and unusual soil conditions such as permafrost which in the onset appeared to be insurmountable, were finally overcome after many years of diligent study and design.

Progress on construction of the pipe line is proceeding in accordance with the anticipated schedule, and to date, no serious delaying problems have been encountered. It is expected that the construction of the pipe line will be completed by 1977.

Assisting Bill Kozy in his presentation, and a question and answer session, were

PITTSBURGH SECTION'S PAST PRESIDENTS DINNER HOLIDAY HOUSE — OCTOBER 24, 1975

More pictures on next two pages.



Jerry Tompson, Project Design Engineer, Structures, and Jack Laasch, on-site Project Engineer for construction of the Tanana Pipe Line Suspension Bridge, over the Tanana River.

The Pittsburgh Section extends its thanks and appreciation to William Kozy and his associates for their fine contribution to another very successful jointly sponsored meeting.

"Hats Off" to John Fail, Membership Chairman, and his committee for their fine recruitment program. As of November 12, 1975, nineteen new members have been initiated into the Pittsburgh Section. At this rate it is highly probable the Pittsburgh Section membership total will surpass all those in the state.

Paul Abel, "ace bartender and trick photographer", apologizes for not coming through with his unusual "repertoire" of candid snap shots of the evening's events. Paul's camera was O.K. but it's that darn flash attachment which always seems to

go "snafoo" just when he's ready for the right shot.

NEW MEMBERS

Benjamin W. LeSueur, P.E., Pittsburgh, Consultant

Raymond S. Hack, P.E., Allison Park, PennDOT

Henry M. Nutbrown, P.E., Carnegie, PennDOT

Warren H. Newberry, McKeesport, PennDOT

Homer L. Logan, Natrona Heights, Utilities.

Italo V. Mackin, P.E., Vanderbilt, Consultant, transferred from Southwest Pennsylvania Section.

Kenneth C. Baxter, Pittsburgh, PennDOT

James F. Brown, Pittsburgh, PennDOT
Edgar C. Richardson, P.E., Beaver, Consultant.

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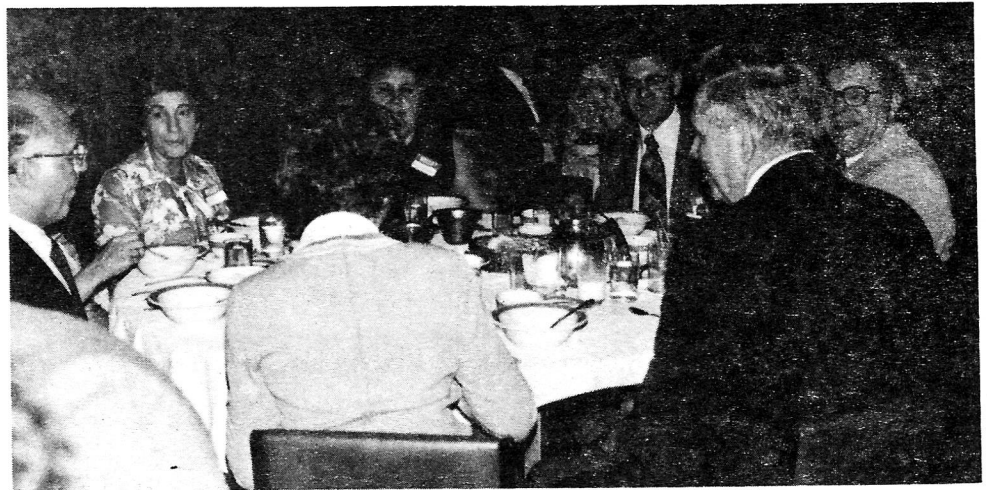
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Pittsburgh Section President Anthony J. Gaeta, right, presenting "Past President Plaque" to Ebert J. Kinter, Immediate Past Section President. Joining in on the presentation are, left to right, John F. De-Ross 1968-69, William E. Urick 1969-70, Atwood L. Welker, Jr. National President, Kenneth E. McCurdy 1970-71, Rudolph Meloni 1973-74, James M. Weaver, Past National President and Robert E. Yeager, Past National President.

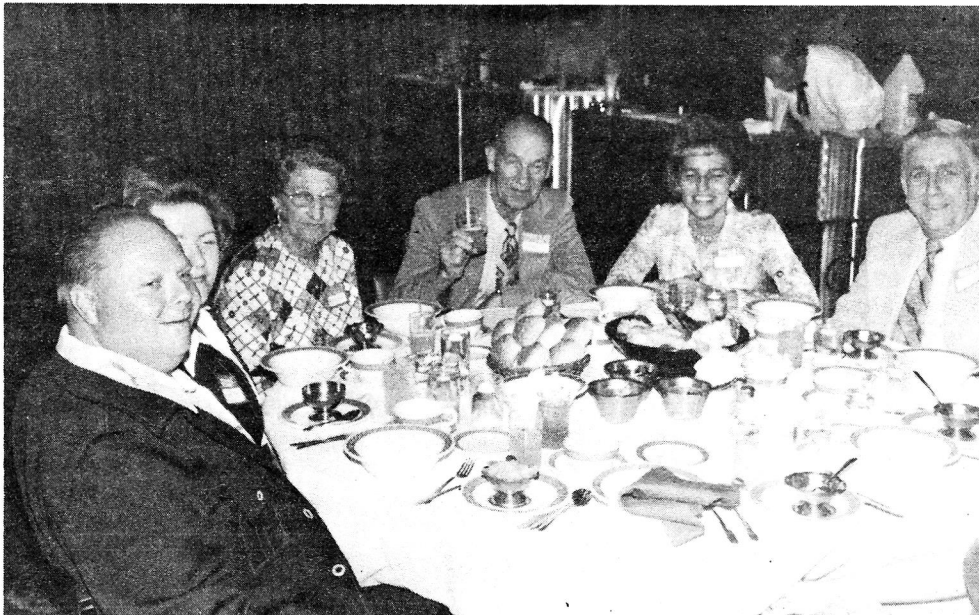


Presentation of "Past Presidents Plaque. Left, Anthony J. Gaeta; right, Ebert J. Kinter. Holiday House, October 24, 1975.

The Presidents Table at Pittsburgh Section's Past Presidents' Dinner, Holiday House, October 24, 1975.



All pictures this page are from
**PITTSBURGH SECTION'S
PAST PRESIDENTS DINNER
HOLIDAY HOUSE
OCTOBER 24, 1975**



1975 - 1976 NATIONAL OFFICERS

President, Atwood L. Welker, Jr., P.E., Williamsport, Pa.
 1st V.P., John F. DeRoss, Pittsburgh, Pa.
 2nd V.P., Harold C. Poulson, P.E., Harrisburg, Pa.
 Secretary, Robert M. Sherr, P.E., Jim Thorpe, Pa.
 Treasurer, George K. Hart, Williamsport, Pa.
 I. Past Pres., Robert E. Yeager, R.S., Hollidaysburg, Pa.

Directors, 3 Years

Lawrence P. Opalisky, P.E., Curwensville, Pa.
 Warren A. Miller, Ebensburg, Pa.
 Rudolph Melani, Cheswick, Pa.
 Neal R. Smith, Selingsgrove, Pa.

Directors, 2 Years

Gene G. Smith, P.E., Sharon, Pa.
 Joseph C. Martinelli, Pittsburgh, Pa.
 Albert Stallknecht, P.E., Camp Hill, Pa.
 George J. Parrs, P.E., Dallas, Pa.

Directors, 1 Year

William Boykas, P.E., Coopersburg, Pa.
 Charles J. Allison, P.E., Altoona, Pa.
 John V. Rignani, P.E., Harrisburg, Pa.
 Joseph C. Ostroski, P.E., Clarks Green, Pa.

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Secretary's Corner

As we come to press for the December issue of The Scanner, it seems to me the Sections' Public Relations Representatives do not realize the importance of their responsibilities.

In the September issue of The Scanner it was noted the Scanner is published in September, December, February and May and I should receive all information no later than the 15th of the month preceding the publication date.

For the December issue I have received information from only six of the ten Sections, therefore no news can be published concerning the Sections who have not reported.

The time of year has come when our thoughts turn to hunting and here, in the Poconos where I live, known as the "Pine Swamp", we have an abundance of deer, bear, turkey, racoon, etc. On our property, called "The Patch", we have a deer - half albino and half rust color, also three black bear ranging from 350 to 450 pounds. We are looking forward to November 24 (Bear Season) and December 1 (Deer Season), and to successful hunting; but we hope no one "bags" our bear or the albino deer.

A reminder concerning the 14th Annual Convention to be held May 13 thru 16, 1976 at the Bedford Springs Hotel,

Bedford Springs, Pa. Keep these dates open and plan to be there. I have been informed the Host Section (Altoona) will have many surprises in store for you and a gala event can be expected.

As reflected in the minutes of the September Board of Directors meeting, the Altoona Convention Committee set up the following fees for ads in the Convention Program.

Inside Cover \$200; Full Page \$150; Half Page \$85; Quarter Page \$50; Patron \$25.

The Altoona Convention Committee will be very happy if you can secure ads from your area.

I note in the East Penn Section news-item, under the "hunting report" there is a question mark for Bob Sherr. Let me assure you that in my area there is very little small game, therefore I would like to see the report after the big game season. Bart - how about getting a shot at the bear? †

ALTOONA SECTION

NEW MEMBERS

John T. Evans, Altoona, Contractor.
 William D. Rossman, Hollidaysburg, Consultant. †

SOUTHWESTERN SECTION

NEW MEMBERS

Eugene J. Galiardi, Connellsville, Penn-DOT. †

MEMBERSHIP

SECTION	MEMBERS
Altoona	127
Clearfield	86
Delaware Valley	251
East Penn	156
Franklin	213
Harrisburg	277
North East Penn	110
Pittsburgh	235
Southwestern Penn	109
Williamsport	122
Total	1,686

The "George K. Hart Award" has been established and will be presented on an annual basis to the Section signing up the greatest number of new members (on a percentage basis) during the fiscal year. The award will be presented at the Annual Convention in May. †

Merry
 Christmas