

GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD

G.C.A.R.C. OFFICERS

PRESIDENT.....	BETH BARNISH	KB2EAL
VICE PRESIDENT.....	MARLA BOZARTH	N2DWR
TREASURER.....	ROBERT LAYTON	KB2COB
REC. SECRETARY.....	CHRIS CHAMBERLIN	N2IVN
COR. SECRETARY.....	JOHN FISHER	K2JF

DIRECTORS

3 YR. CHUCK COLABRESE...WA2TML
3 YR. FRANK MALINOWSKI..KE2NY
2 YR. JERRY BARNISH.....WB2CAK
2 YR. MICHAEL LIPNITZ...N2FKS
1 YR. C. SKETCHLEY.....K2PQD
1 YR. MIKE LIZZIO.....WA2TOP

TRUSTEES

4 YR. HOWARD MARDER...WA2IBZ
3 YR. VIRGINIA MACRIE..KA2ZZA
2 YR. JIM CLARK.....KA2OSV
1 YR. JIM McDONALD....N2AIV

COMMITTEE CHAIRPERSON

ARES/RACES.....	WB2LNR	MEMBERSHIP.....	WB2GSF
AWARDS.....	K2ZA	NETS.....	WA2TOP
BANQUET.....	N2DWR	PUBLICITY.....	N2HQL
CONSTITUTION.....	WA2NPD	LEGISLATION.....	? ? ? ?
CONTESTS.....	WB2CAK	REPEATERS.....	WA2TML
DATA PROCESSING.....	KB2COB	SCHOLARSHIP.....	N2GSF
FIELD DAY.....	KA2DOT	SITE.....	KB2EAL
HAMFEST.....	WB2CAK	SPECIAL SERVICES.....	KA2ZZA
HELP/WELFARE.....	N2ILB	SUNSHINE.....	KB2EUA
HISTORIAN.....	K2PQD	TECHNICAL.....	WA2TML
HOSPITALITY.....	KB2AB	TRAINING/TESTING.....	WA2VQG
CHAPLIN.....	WA2BMQ	SPECIAL EVENTS.....	WB2OYQ
CROSSTALK EDITOR (ALL).....	N2FJQ	ADVERTISING.....	KA2YKN

CLUB NETS

ARES/RACES...SUNDAY 20:00 HRS. REPEATERS 147.78/18-224.66/223/06
10 METERS...TUESDAY 21:00 HRS. FREQUENCY 28.350 MHZ.

CLUB REPEATERS

147.78/18 MHZ. 224.66/223.06 MHZ. 442.100/447.100 MHZ. PL20 OR 3B

CLUB MEETING : FIRST WEDNESDAY OF EACH MONTH AT VFW HALL IN WOODBURY, NJ.
: STARTS 20:00 HRS SHARP

CROSSTALK CONTRIBUTIONS : SEND TO N2FJQ OR VIA KB2COB PACKET 145.070
DEADLINE IS ONE WEEK BEFORE MEETING.

CLUB SITE MONITORS 147.78/18

PRESIDENTS MESSAGE

THE END OF TH SUMMER IS DRAWING CLOSER TO AN END AND WITH IT COMES OUR CLUB'S MOST IMPORTANT MAJOR EVENT, HAMFEST 1990. TO REMIND EVERYONE, THIS YEAR'S HAMFEST WILL BE HELD ON SUNDAY, AUGUST 26 AT THE 4H FAIR GROUNDS IN MULLICA HILL. HELP IS ALWAYS NEEDED AND APPRECIATED. THE MORE VOLUNTEERS WE HAVE THE EASIER IT IS FOR ALL. CHECK YOUR CALENDERS AND LET THE HAMFEST COMMITTEE KNOW IN WHAT AREA YOU CAN HELP OUT.

FOR THOSE MEMBERS WHO HELPED OUT AT THE 4H PARKING THIS YEAR, THANK YOU ALL. A SPECIAL THANKS TO JIM, KB2GTT, FOR HELPING ME COORDINATE THE EVENT THIS YEAR.

A SPECIAL THANKS ALSO TO W2GSN FOR COORDINATING THE COMMUNICATIONS AT THE CAMP SUN-N-FUN.

WE ALSO HAVE BEEN ASKED AGAIN THIS YEAR TO HELP OUT AT THE WASHINGTON TWP. SPECIAL OLYMPICS ON SATURDAY, OCTOBER 6, FROM 8:00am to 2:00pm. ANYONE WHO DID THIS LAST YEAR WILL REMEMBER WHAT A REWARDING EXPERIENCE IT CAN BE. ANYONE WHO CAN HELP OUT CAN SIGN UP AT THE UPCOMING MEETINGS.

LOOKING AHEAD OUR 1991 AWARDS AND INSTALLATION BANQUET WILL BE HELD ON 1/12/91 AT THE DUTCH INN. N2FJM AND N2AKL ARE IN CHARGE AND WILL BE PROVIDING THE CLUB WITH FURTHER INFORMATION.

IN CLOSING, REMEMBER THAT IT IS THROUGH THE DEDICATION OF THE MEMBERSHIP THAT OUR CLUB CAN CONTINUE TO BE VITAL AND ACTIVE. WITHOUT YOUR SUPPORT WE CANNOT CONTINUE OUR PACE IN THE YEARS TO COME. I AM OPEN TO SUGGESTIONS ON WAYS TO GIVE THE CLUB A "RECHARGE". IF YOU HAVE ANY, LET ME KNOW. THANK YOU FOR YOUR CONTINUED SUPPORT.

SEE YOU AT THE MEETING. 73, KB2EAL

PROGRAM==== ***

BEEF AND BEER NIGHT = COME OUT AND SEE THE NEW FACES.

WANTED ==

HF RIG WITH WARC BANDC , CALL BILL NJ2D



(302) 478-2757

AMATEUR AND ADVANCED
COMMUNICATIONS

BILL RYAN WB3DPJ
Manager

3208 CONCORD PIKE
WILMINGTON, DE 19803

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WANTED ===

HF RIG WITH WARC BANDC , CALL BILL NJ2D



(302) 478 2757

AMATEUR AND ADVANCED
COMMUNICATIONS

BILL RYAN WB3DPJ
Manager

3208 CONCORD PIKE
WILMINGTON, DE 19803

ASTRONOMY NOTES
THE MOONS OF MARS DISCOVERY

THE TWO TINY MOONS OF MARS WERE DISCOVERED 113 YEARS AGO THIS MONTH IN 1877, BY ASAPH HALL AT THE U.S. NAVAL OBSERVATORY IN WASHINGTON, D.C.

MANY ASTRONOMERS SUSPECTED THAT MARS HAD MOONS BECAUSE BOTH EARTH AND JUPITER, ITS TWO NEIGHBORS IN SPACE, HAD MOONS. HALL DECIDED TO SEARCH FOR THE POSSIBLE SATELLITES BY LOOKING SOME DISTANCE AWAY FROM THE PLANET AND THEM MOVING SYSTEMATICALLY INWARD. HIS STRATEGY WAS TO BEGIN SEARCHING FARTHER FROM MARS IN PROPORTION TO THAT PLANET'S SIZE THAN THE DISTANCE OF EARTH'S MOON FROM OUR PLANET. WHEN NO SIGN OF A MARTIAN MOON APPEARED, HE BECAME DISCOURAGED, BUT HIS WIFE, ANGELINE STICKEY HALL, URGED HIM TO KEEP ON SEARCHING.

ON THE NIGHT OF AUGUST 11, 1877, HALL BEGAN EXAMINING A REGION MUCH CLOSER TO MARS. HIS TECHNIQUE WAS TO KEEP THE PLANET ITSELF JUST OUTSIDE THE FIELD OF VIEW OF HIS TELESCOPE; HE THEN SWEEPED AROUND THE PLANET, PIERING INTO THE REGION OF SPACE ILLUMINATED BY ITS GLARE. HE FIRST GLIMPSED THE OUTER MOON IN THE PRE-DAWN HOURS THAT NIGHT, SHORTLY BEFORE FOG OBLITATED THE VIEW.

CLOUDY WEATHER CONTINUED FOR SEVERAL NIGHTS, BUT ON THE NIGHT OF AUGUST 16 HE FOUND THE OUTER MOON AGAIN AND CONFIRMED THAT IT WAS MOVING WITH THE PLANET. THE NEXT NIGHT, WHILE WATCHING FOR THE OUTER SATELLITE, HE DISCOVERED A SECOND MOON OF MARS INSIDE THE ORBIT OF THE FIRST. THE TWO MOONS WERE NAMED DEIMOS AND PHOBOS, RESPECTIVELY, FOR PANIC AND FEAR, THE TWO HORSES OF THE MYTHOLOGICAL WAR GOD, MARS.

THE INNER MOON CONFOUNDED HALL BECAUSE IT WAS SO CLOSE TO THE PLANET AND REVOLVING EVEN FASTER THAN MARS. IN FACT, AN OBSERVER ON MARS WOULD SEE PHOBOS RISE IN THE WEST AND SET IN THE EAST TWICE A DAY.

IN OUR DAY, SPACECRAFT HAVE MAPPED THE SURFACE OF MARS AND ITS MOONS. THE LARGEST CRAATER ON PHOBOS WAS NAMED STICKEY IN HONOR OF HALL'S WIFE.

THE PLANETS THIS MONTH

MERCURY IS VISIBLE IN EVENING TWILIGHT. VENUS RISES AT 4 A.M., SATURN SETS AT 4 A.M., CROSSES MERIDIAN AT 11 P.M. (ALL TIMES ARE LOCAL).

IT HAPPENED IN AUGUST

AUGUST 11 ASAPH HALL DISCOVERED DEIMOS MOON OF MARS 1877.
AUGUST 13 FERSELD METEORS (YOU THE BOYS TRY YOUR HAND AT METER 050 3)
AUGUST 17 ASAPH HALL DISCOVERS PHOBOS MOON OF MARS 1877.
AUGUST 25 VOYAGER 2 FLIES PAST SATURN, 1981.
AUGUST 27 WILLIAM HERSCHEL DISCOVERS ENCELADUS, MOON OF SATURN 1789.

CONTESTS

AUGUST 1 ARN THE CONTEST 1800 Z FOR 24 HRS.
AUGUST 11 WAE DX CW 1200 Z 36 HRS.
AUGUST 25 ALL ASIA CW 0000 Z 48 HRS.

RADIO TRIVIA

AUGUST 9 THE RADIO ACT OF 1912 WAS INTENDED TO RESTRICT THE AMATEURS BY CONFINING ACTIVITY TO "200 METERS AND DOWN". THE EFFECT WAS OPPOSITE, FOR IT GAVE AMATEUR RADIO LEGAL STATUS AND FOSTERED ACTIVITY IN EXACTLY THE DIRECTION WHICH PROVED MOST ADVANTAGEOUS FOR LONG DISTANCE COMMUNICATION.

AUGUST 26 LEE DEFOREST BORN 1873. LEE DE FOREST WORKED IN MANY AREAS OF ELECTRONIC TECHNOLOGY AND TELEPHONY. HE IS THE FATHER OF THE GRID ELECTRON TUBE - HIS "AUDION". IT TOOK ARMSTRONG'S REGENERATIVE FEEDBACK CIRCUIT TO TRULY USE THE "AUDION" TO ADVANTAGE.

AUGUST 29 THE BROADCAST OF THE RESULTS OF AN ELECTION PRIMARY BY THE DETROIT NEWS, BIKK ADVERTISED BY THE PAPER IN ADVANCE AND RECEIVED SO MUCH THE INTEREST IN "AMATEUR" RECEIVING SETS BY THE PUBLIC BEGAN TO GROW.

TNX = K2JF

MAILBOX CALL-SIGN SLOT LIST

as of 7-27-90

01. HOME	15. N2FJM	29. K2OWE	43. KE2NY	57. W2DWE	71. N2DWR
02.	16. N2HYS	30. KB2GW	44. K2RCH	58. N2DJZ	72. KB2ETV
03.	17. KA2DOT	31. WB2LNR	45. WB2THM	59. N2AYK	73. WA2SIF
04.	18. AI2B	32. NM2T	46. WA2PFC	60. WB2GSF	74. N2DUZ
05.	19. KB2GTT	33. N2FJQ	47. WB2UVB	61. WA2FZB	75. N2JLQ
06. N2JSA	20. KE2SC	34. WB2HVJ	48. N2IQQ	62. N2FKT	76. N2IVN
07. KA2ZRN	21. WA2TML	35. W2SPN	49. KD2CR	63. KA2OSW	77. KB2COB
08. N2KLD	22. N2FNF	36. WA2GFK	50. WA2USI	64. N2FKS	78. SYSTEM USE
09. KB2AYU	23. KC2PC	37. WA2FGA	51. WA2UDO	65. WB2CAK	79. SYSTEM USE
10. N2KDU	24. K2JF	38. WB2OYQ	52. KE2ES	66. WB2DXB	80. SYSTEM USE
11. KB2IQP	25. W2PAX	39. KA2KMW	53. NJ2B	67. WA2ZND	
12. N2HZM	26. N2ASV	40. K2ZN	54. WA2TOP	68. KB2GTV	
13. N2KLE	27. WB2OZE	41. WA2IBZ	55. K2POD	69. N2IMK	
14. WB2VOH	28. W2GSN	42. N2AKL	56. KA2OSV	70. KN2U	

NOTE - The word "HOME" is stored in location 01

GENERAL INFORMATION OF INTEREST=

If you have read QRZ DX and found the article on ZSI PENGUIN ISLANDS, you will read where Seal Island is " 3/4 miles long and 3 cables across at its widest part". For your information the distance can be computed from the following information; NAUTICAL MEASURE

10 cable's lengths = 1 nautical mile. The international nautical mile is 6076.1033 ft. Adopted offically in U.S. on July 1, 1954

Joseph Fazzio, Inc.

RD 1, BOX 554, GLASSBORO, N.J. 08028

BUILDING MATERIALS

STEEL BEAMS, ANGLE, CHANNEL, PIPE
LUMBER, MILLWORK, HARDWARE

Phone: ALUMINUM & GALVANIZED ~~PIPE~~ Pipe

(609) 881-3185

FAX (609) 881-0214

Corner of Pitman Downer Road
and Glassboro Cross Keys Road

Open 7 AM to 1 AM

(609) 228 5166



Fine Selection of Gourmet Food

Steaks • Chops • Seafood
Cheesecake

Ample Parking

Rte 47 & 41 Deptford Township
Conveniently Located at
5 Corners Intersection
PO Box 392 Sewell, NJ 08080

MS 150 BIKE TOUR



Join us for the 10th annual MS 150 City to Shore Bike Tour. Saturday and Sunday, September 22 and 23 and take the challenge to help those with multiple sclerosis by participating in the largest overnight bicycle tour on the East Coast!

The MS 150 is a two-day, 150-mile round trip summertime adventure from Garden State Park in Cherry Hill, NJ to Ocean City, NJ and back. It's also beautiful scenery like the shore countryside and Jersey pinelands, good cycling friends and wonderful food. Last year, over 2,500 cyclists from 8 to 70 years-of-age met the MS 150 challenge. This year, we'd like you to come along, too!

YES I CAN HELP

NAME _____ CALL _____

STREET _____ CLASS _____

CITY _____ STATE _____ ZIP _____

PHONE () _____

TEE SHIRT SIZE S M L XL XXL XXXL

BANDS MOBILE 146 220 440 OUTPUT POWER _____

BANDS H.T. 146 220 440 OUTPUT POWER _____

I CAN HELP SAT SUN BOTH

AREA THAT YOU WOULD LIKE TO STAY WITH IN

WILL YOU NEED A ROOM ON SAT. NITE IN OCEAN CITY

YES NO

WOULD YOU LIKE TO HELP OUT IN A SUPORT UNIT. IE

MED., PICK UP BUS, SWEEP, SAG WAGON OR REPAIR TRUCK

YES NO

IF YOU CAN HELP OUT PLEASE FILL OUT AND RETURN A.S.A.P TO

MS-150 BIKE TOUR
HAM RADIO OPPTS
P.O. BOX 426
NEWCASTLE, DELAWARE
19720



WCAU-TV10 anchorman Larry Kane has served as the chapter's honorary chairman of the MS 150 Bike Tour for ten years. According to Kane, "I'm looking forward to greeting many veterans and welcoming many new riders to the exciting 10th anniversary tour!"



GOV. JAMES A. FLORIO
"I am deeply delighted to lend my support to this worthwhile endeavor. I urge everyone to take part in the 10th year 'bicycling celebration.'"



GERT LEMOND
Winner of the 1989 Tour de France and Sports Illustrated's 1989 Sportsman of the Year, LeMond is the national honorary chairperson of the MS 150. "Become a rider, volunteer or sponsor of the MS 150 Bike Tour. When you join the MS 150, you're joining me on a winning team."

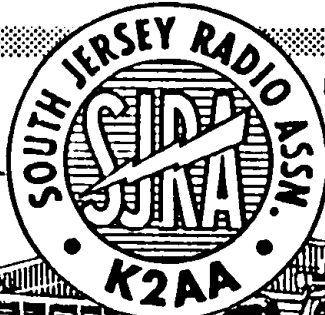


SOUTH JERSEY RADIO ASSOCIATION

42nd ANNUAL HAMFEST

1990 — THE 74th ANNIVERSARY OF THE SOUTH JERSEY RADIO ASSOCIATION

SUNDAY
SEPTEMBER 16th, 1990

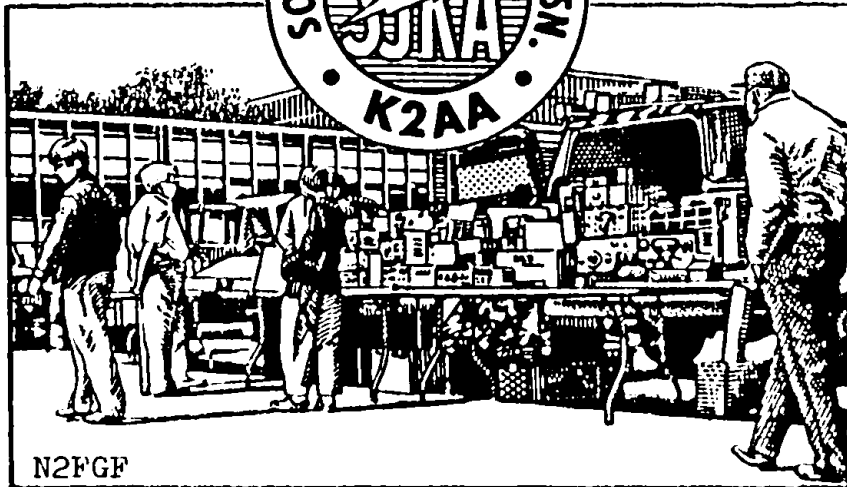


PENNSAUKEN HIGH SCHOOL PARKING LOT
PENNSAUKEN, NEW JERSEY

VEC-HAM
LICENSE TESTING
ALL CLASSES
REGISTRATION AT
9:30 A. M.

PLENTY OF FREE
PARKING

TABLE AND
TAILGATE SALES



GIGANTIC
SWAP SHOP

REFRESHMENTS
AND FOOD
AVAILABLE IN THE
CAFETERIA

EYEBALL QSO's
WITH YOUR
FRIENDS

RAIN OR SHINE - 8:00 A.M. TO 3:00 P.M.

K2AA TALK-IN
S J R A REPEATER
145.290 (-600)

DOOR PRIZES

Prizes will be awarded throughout the day. The three (3) main Door Prizes will be drawn at 1:00 P.M. The winners of the top three (3) prizes need not be present to win. Winners will be notified only if ticket contains winner's Call, Name & Address and Phone Number

TICKETS

Advance Sale	\$ 3.50
At the Gate	\$ 4.00
Tail Gate (Per Space)	\$ 5.00

Tailgaters must purchase an Admission Ticket

Send Check or Money
Order along with a
S. A. S. E. to:

JIM McGRATH, KB2IYS

