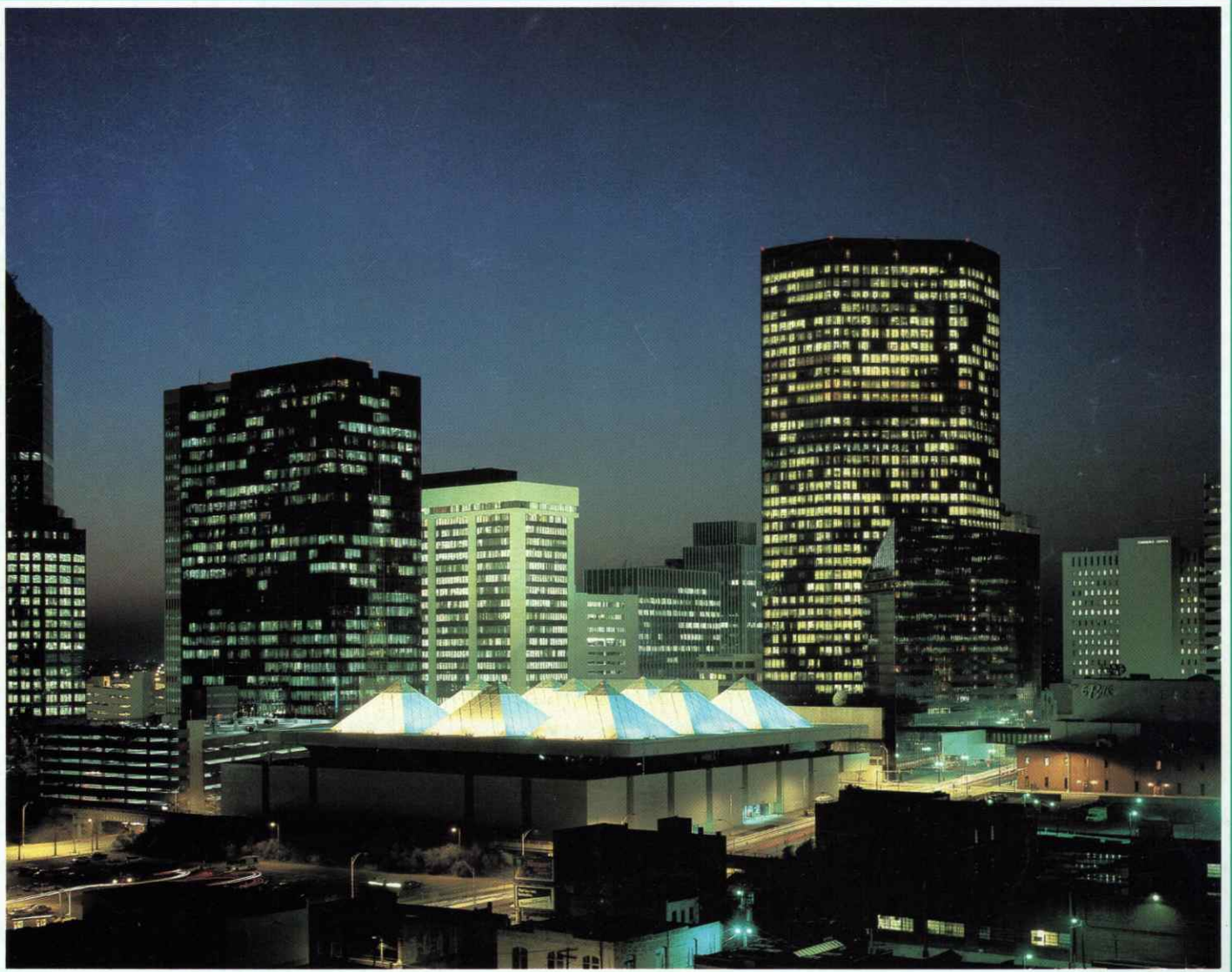

1 9 9 0
CHARLOTTE
HAMFEST AND COMPUTERFAIR



March 17 and 18, 1990
ARRL NC Section Convention

KENWOOD

The DXpeditioner!

TS-440S

Compact high performance HF transceiver with general coverage receiver

Portable reliable performance and ease of use makes the TS-440S your obvious "low bands" choice. It is "Every Ham's" rig to go — ham shack, portable or mobile. But don't let the small size fool you — there's lots of "big rig" performance packed into this package. Built-in antenna tuner option. Continuous duty transmitter. Super DynaMix™ front end. Five filter functions. The TS-440S is at your service wherever you wish to operate.

- **Covers all Amateur bands**
General coverage receiver tunes from 100 kHz–30 MHz. Easily modified for HF MARS operation.
- **Direct keyboard entry of frequency**
- **All modes built-in**
USB, LSB, CW, AM, FM, and AFSK. Mode selection is verified in Morse Code.
- **VS-1 voice synthesizer (optional)**
- **Built-in automatic antenna tuner (optional).** Covers 80–10 meters.
- **5 IF filter functions**
- **Superior receiver dynamic range**
Kenwood DynaMix™ high sensitivity direct mixing system ensures true 102 dB receiver dynamic range. (500 Hz bandwidth on 20 m.)
- **100% duty cycle transmitter**
Super efficient cooling permits continuous key-down for periods exceeding one hour. RF input power is rated at 200 W PEP on SSB. 200 W DC on CW, AFSK, FM, and 110 W DC AM. (The PS-50 power supply is needed for continuous duty.)
- **Computer interface port**
- **Adjustable dial torque**
- **100 memory channels**
Frequency and mode may be stored in 10 groups of 10 channels each. Split frequencies may be stored in 10 channels for repeater operation.
- **TU-8 CTCSS unit (optional)**

- **MC-43S UP/DOWN mic. included**
- **Superb interference reduction**
IF shift, tuneable notch filter, noise blanker, all-mode squelch, RF attenuator, RIT/XIT, and opt. filters fight QRM.
- **Dual SSB IF filtering**
A built-in SSB filter is standard. When an optional SSB filter (YK-88S or YK-88SN) is installed, dual filtering is provided.
- **VOX, full or semi break-in CW**
- **AMTOR compatible**



Optional accessories:

- **AT-440** internal auto. antenna tuner (80 m – 10 m)
- **AT-250** external auto. tuner (160 m – 10 m)
- **AT-130** compact mobile antenna tuner (160 m – 10 m)
- **IF-232C/IC-10** level translator and modem IC kit
- **PS-50** heavy duty power supply
- **PS-430** DC power supply
- **SP-430** external speaker
- **MB-430** mobile mounting bracket
- **YK-88C/88CN** 500 HZ/270 Hz CW filters
- **YK-88S-88SN** 2.4 kHz/1.8 kHz SSB filters
- **MC-60A/80/85** desk microphones
- **MC-55** (8P) mobile microphone
- **HS-4/5/6/7** headphones
- **SP-41/50B** mobile speakers
- **MA-5/VP-1 HF** 5 band mobile helical antenna and bumper mount
- **TL-922A** 2 kw PEP linear amplifier
- **SM-220** station monitor (no pan display)
- **VS-1** voice synthesizer
- **TU-8** CTCSS tone unit
- **PG-2C** extra DC cable.

KENWOOD U.S.A. CORPORATION
COMMUNICATIONS & TEST EQUIPMENT GROUP
P.O. BOX 22745, 2201 E. Dominguez Street
Long Beach, CA 90801-5745
KENWOOD ELECTRONICS CANADA INC.
P.O. BOX 1075, 959 Gana Court
Mississauga, Ontario, Canada L4T 4C2

KENWOOD

...pacesetter in Amateur Radio

CHAIRMAN'S WELCOME

Greetings:

On behalf of the Mecklenburg Amateur Radio Society,
and the 1990 Charlotte Hamfest Committee, we wish to
welcome you to the
1990 Charlotte Hamfest and Computerfair.

During the past year, the Hamfest Committee has
worked very hard to put together another outstanding
Hamfest and Computerfair. We always strive to pro-
vide you with the best convention of its type in the
Southeast. We want you to have a superb and entertain-
ing time.

We wish you the best for the weekend, have a safe trip
home, and leave a note to return in March for the
1991 Charlotte Hamfest and Computerfair.

73,

Bob Thomas, KB4QR Mary Biggs, KA4EXP
Hamfest Chairpersons

OTHER INFORMATION

EXHIBIT HOURS

Exhibits open and prizes on display

Saturday: 9:00 to 5:00.....**Sunday:** 9:00 to 2:00

Drawing for major prizes

10:00 Saturday.....Pre-Registration

4:00 Saturday.....Main Prizes

2:00 Sunday.....Main Prizes

EXHIBITOR INFORMATION

To receive information about becoming an exhibitor, please leave your name and address at the **Dealer Information Booth** next to the stage or write to:

Robert Starling, N4GVF
Dealer Chairman
7921 Holly Hill Road
Charlotte, NC 28227

TEST BENCH

The Mecklenburg amateur radio society will provide a test bench for your purchases compliments of Earl Fortner, K4KAY. It is located at the Club Booth, next to the stage.

TALK-IN FREQUENCY

For directions in or out of the Hamfest area, contact W4BFB/R on 146.34/146.94.

Program Advertising

To receive information on becoming an advertiser in the 1991 edition of our program write to:

John Ratterree, KB4VDJ
Crown Advertising and Printing
PO Box 12353 Charlotte, NC 28220

PRIZES

Saturday (Drawing at 4:00 PM)

Pre-registration prize (10:00 AM)

ICOM IC - 2SAT Compact (micro) 2M Hand Held

◆ First Prize - ICOM IC - 736 160-6M General Coverage HF Transceiver

◆ Second Prize - ICOM IC-228A 2M Mobile Transceiver - 45 watt output

◆ Third Prize - ICOM IC-2GAT 2M Hand Held - 7w output

◆ Fourth Prize - Advantage PC-XT 10 IBM Compatible computer w/mono monitor

◆ Fifth Prize - Outbacker all-band HF Mobile antenna

Sunday (Drawing at 2:00 PM)

◆ First Prize - ICOM IC-725 160-10M General coverage transceiver

◆ Second Prize - ICOM IC-32AT 2M/70cm Hand Held w/touchtone pad

◆ Third Prize - ICOM IC-2SAT Compact (micro) 2M Hand Held

◆ Fourth Prize - Panasonic 1180 Printer - 193 CPS Draft, 39CPS NLQ

Special hourly prizes

Dozens of great hourly prizes to be distributed all day Saturday and Sunday.

Special hourly prizes must be claimed in 15 minutes, or names will be re-drawn. Main prizes need not be present to win.

◆ Our thanks to **ICOM**, **Outbacker**, and **PC Land** for their assistance in obtaining the prizes above.

Look for the prize signs in the booths of the many manufacturers and dealers who have so graciously donated prizes to add to your pleasure. We encourage you to support them.

SATURDAY FORUMS

TIME	4 TH STREET ROOM
10:00	MARS
11:00	PACKET RADIO FORUM — Discussion of what is going on in Packet Radio today, and directions of the future
12:00	TO BE ANNOUNCED
1:00	ARRL
2:00	HAM RADIO IN THE USSR—Victor Peteraitis, UP2BIG. Your chance to meet and talk to a Soviet Ham Radio operator
3:00	SINGLE PREFIX QSL BUREAU — Roger Burt, N4zc
4:00	NC ARES MEETING — All EC's, DEC's, SEC's

SUNDAY FORUMS

TIME	FORUM ROOM ON THE SOUTH SIDE OF THE BUILDING
10:00	THE NEW MICROSAT SATELLITES — Jerry Malin, WB2LEI. Learn about the latest new satellites
11:00	DX ADVISORY COMMITTEE — Glen Norton, KC1MM
12:00	HAM RADIO IN THE USSR—Victor Peteraitis, UP2BIG. Your chance to meet and talk to a Soviet Ham Radio operator
1:00	TO BE ANNOUNCED

PARTICIPATING DEALERS

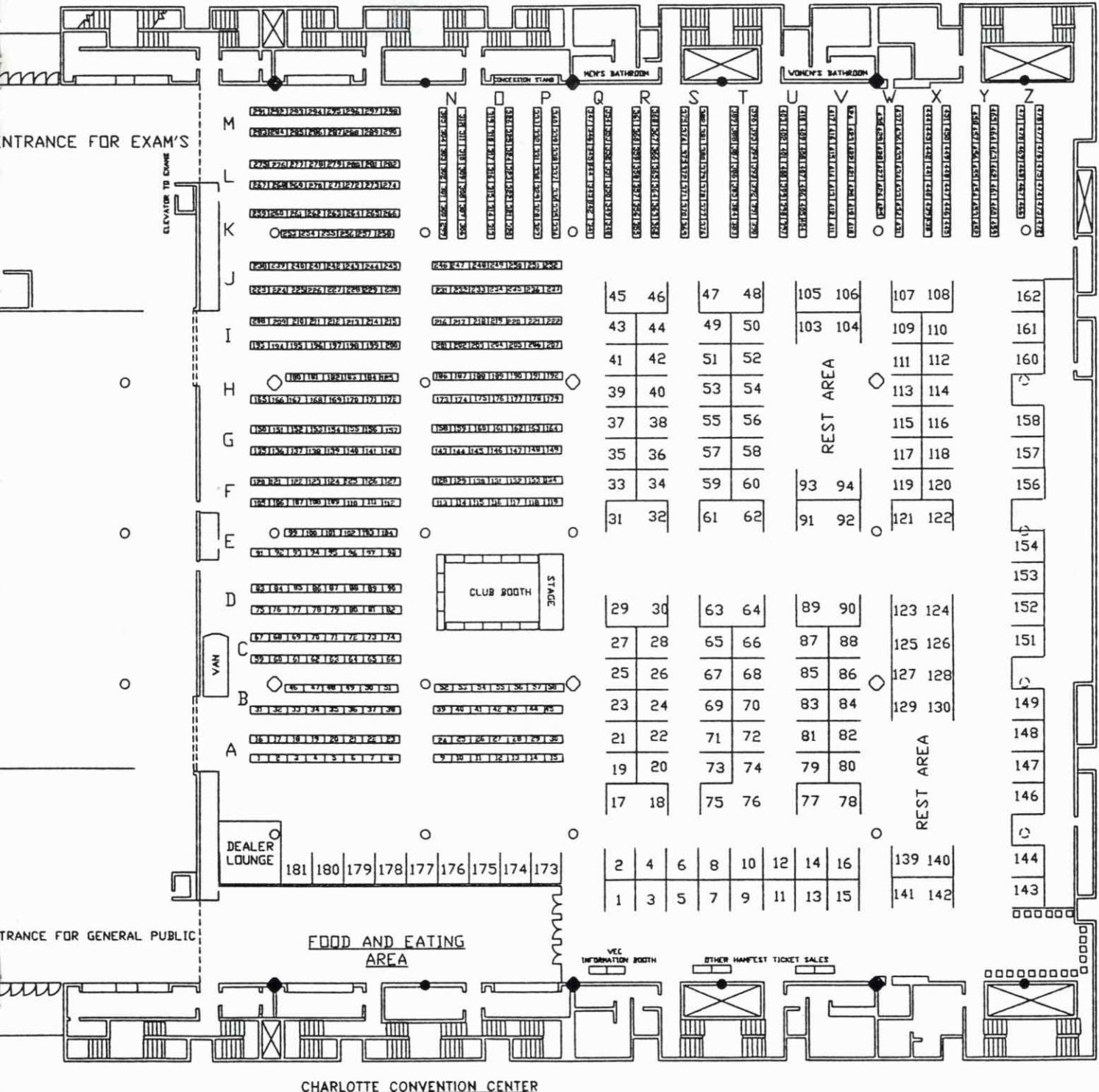
73 Magazine	33	J.R.S. Distributors	50, 52, 54, 56
Alfa Electronics	34,36	Lakeview Company	45, 46
Alinco Electronics	55, 57, 59	Lincoln Computer Center	80, 82
Ameritron	23	Lynk Technology	93, 94
Battery - Tech	79, 81	MFJ Enterprises	19, 21
BTM Computer Ic.	7, 9	Micro Media Corporation	143, 144
Certified Communications	160, 161, 162	Missouri Radio Center	66, 68, 70, 72
Chawla Sales	84	Mr. Nicad - E.H. Yost & Co.	5
Communications Data Corporation	000	NC Air National Guard	60
Computer Bug	121, 122	Nuts and Volts Magazine	11
Copy One	73	Omar Electronics	38, 40, 42, 44
CQ Magazine	91, 92	Outbacker Antenna Sales	69
Data World's Micros to go	105, 106	PAC-COMM Packet Radio Systems	39
Delaware Amateur Supply	146, 147, 148, 149	Paramount Communications Electronics	29, 30
Den-Tronics	20	Peripherals Plus, Inc.	167, 168
Digital Radio Systems	41	Public Brand Software	89, 90
Discount discs	17, 18	QSL's By W4MPY	71
Disks and labels to go	156, 157, 158	Ramsey Electronics	31, 32
E.S.R.C.	35	RLW Associates	35
Eagle International	86, 88	Smiley Antenna Co.	65, 67
EIL Instruments	13	Somerset Electronics Inc.	15
Electronic Associates	47, 48	Sound Advice	120
Electronic Specialists	22, 24, 26, 28	Surplus Sales of Nebraska	123-130
Encyclopedia Britannica USA	115	Ten-Tec Incorporated	117, 119
F & M Electronics	77, 78	Texas Comm Center	49, 51, 53
Gap Antenna Products	43	The Ham Station	83, 85, 87
Gifted Creations	58	The Radio Works	107, 108
Greentree Computers	103, 104	The Sign Man III	27
H. C. Van Valzah Co.	110, 112, 114	United Computer Resources of New Jersey	1, 3
Hamtronics, Inc. Trevose Pa.	151, 152, 153, 154	United Computer Resources of Atlanta	63, 64
Ham Radio Outlet, Inc.	2, 4, 6, 8, 10	Williams Radio Sales	61, 62
ICOM America Inc.	74, 75, 76	YAESU Electronics Corporation	12, 14, 16

S. COLLEGE STREET

List of dealers as of press time. There might be some additions on the day of the Hamfest.

MECKLENBURG AMATEUR RADIO SOCIETY HAMFEST AND COMPUTERFAIR

E. TRADE STREET
CHARLOTTE CONVENTION CENTER



* Dealer Participation, Location, Map & Floor Plan are all subject to change without notice.

RUSSIAN HAM

SPECIAL HONORED GUEST

In the spirit of Glasnost, the **Mecklenburg Amateur Radio Society** and the **Carolina DX Association** are proud to sponsor a visit by a Soviet Amateur Radio Operator. Possibly the first Soviet Amateur to ever speak at a Hamfest in the United States.

Viktoras Peteraitis (Victor), from the Soviet Republic of Lithuania, will arrive at Charlotte Douglas airport Tuesday, March 13 at 4:54 PM., beginning a two month tour of the United States using Charlotte as home base.

Victor, age 35, speaks fluent English and ranks in the highest honors of Amateur Radio in the Soviet Union. Called **Radiosport** in the Soviet Union, Amateur Radio is governed by the Soviet Sports Federation, the same body who governs Olympic competition. He holds the coveted title of "*Master of Sport, International Class*". Only 30 people in the world hold this title. Victor is also one of only 18 people

from across the Soviet Union who are members of the Soviet Short Wave Committee. They act as an advisory board on all radio related matters.

A Ham since 1971, Victor's own call is **UP2BIG**. Primarily operating from the club station at the TV factory where he works, most of you will know him by the club call, **LY2ZZ**, ex-**UP1BZZ**. The club call has earned **5BDXCC**, **5BWAZ**, **5BWAS**, **USACA 2500** and maintains a spot on the **DXCC Honor Roll**.

A bachelor until last march, Victor is now married and the proud father of twin baby girls.

Victor will be the featured speaker on both Saturday and Sunday at the Hamfest. In between you should be able to find him at the **CDXA club booth**. We know he will look forward to meeting each and every one of you.

WE ARE MOVING!

The 1991 Charlotte Hamfest and Computerfair will be moving to new, larger quarters next year. In response to the many requests for more room and easier parking, we will be changing our location to the **Charlotte Merchandise Mart** at the corner of Independence Boulevard (I-74) and Briar Creek Rd.

We will expand from 87,000 square feet to 104,000 square feet. Acres of convenient parking just outside the doors, large forum rooms, 300 seat cafeteria on premises, plus a number of good restaurants across the street. We will have five loading docks for much easier loading and unloading. Loading doors are off the street, so there will be no more hassles with the traffic or the local police.

The Charlotte Merchandise Mart just opened their expanded exhibit area, so all the facilities will be brand new. We must, however, move our Hamfest weekend from the third weekend in March to the second weekend in march. Weather should be no problem, as everything is inside.

For the out-of-towners, there is a Holiday Inn, Comfort Inn, and Coliseum Inn across the street, and a newly remodeled Ramada Inn one block away. Dine at Valentino's, Nakato's, or El Cancun restaurants very close by, along with many others within one mile.

We now have room to grow, and we'll be even better in the years to come. Spread the word, and put **March 9 & 10, 1991** on your calender for next year.

HAMMING IT UP IN THE QUEEN CITY!

Charlotte is the fifth largest urban center in the U. S., with 5.6 million people within 100 miles of the city center. Here's a sample of Charlotte's wide variety of dining, shopping and entertainment possibilities!

RESTAURANTS

Arthur's, Ivey's Department Store, 127 N. Tryon St. Casual, American Cuisine (salads, big sandwiches). Price range: \$8 to \$18.

The Chateau, 800 East Morehead St. Continental cuisine (great burgers!) casual, live music. Price range: \$8 to \$13.

Fifth Street Cafe, 118 W. Fifth St. Seafood served in a casual atmosphere. Price range: \$8 to \$18.

Long Horn Steaks, 700 East Morehead. Long neck beers and the best steaks in town served in a Texas atmosphere. Casual, and there's usually a short but worthwhile wait. Price range: \$8 to \$18.

Nicky's Rodeo, 731 Providence Rd. Another great steak place with a Western touch. Casual. Price range: \$8 to \$13.

Tio Montero, 1801 Scott Ave (off East Boulevard). Authentic Spanish cuisine. Live music on selected evenings. Casual. Price range: \$8 to \$13.

SHOPPING

Cityfair, corner of North Tryon and Sixth Streets. This is Charlotte's new shopping and dining and urban entertainment complex. Retail shops include a variety of unique specialty shops, along with conventional shops and festive kiosks and carts.

SouthPark Mall, 4400 Sharon Road. Browse through more than 111 specialty and department stores including Belk, Ivey's, Thalheimer's, Laura Ahley and many more. Hungry? Try any number of restaurants at SouthPark's Food Court.

ENTERTAINMENT

Discovery Place, 301 N. Tryon Street. One of America's top hands-on science and technology museums, for adults and children. A good visit takes two to three hours. Admission: Adults, \$4; students, \$3; children 3-5, \$2; children under three, free; senior citizens (60 +), \$3.

Spirit Square, 110 E. 7th St. This center for the arts boasts exhibits in four galleries and a nine-month performance season. Call for ticket information: 704/376-8883.

CAVEAT EMPTOR

On rare occasions Hamfest customers sometimes find that the persons that they are dealing with might not represent themselves or their merchandise in the most honest manner. As it is impossible for the Hamfest Committee to screen everyone who brings goods to sell, we offer a little advice to buyers.

Ask questions. Is the radio really new? Is the person you are purchasing it from an authorized dealer? What kind of warranty does it have? Who does the service, the dealer or the manufacturer? What is their return policy? If you send your radio to the dealer, does he fix it in his shop, or send it on to the manufacturer, and tack on a little extra for his trouble? Is the salesperson knowledgeable? Is the price too good to be true?

We have seen cases where a merchant did not have the goods in stock, but promised to ship them as soon as he returned to his shop. Unfortunately, on a few occasions, the purchaser waited a very long time before actually receiving the merchandise. The merchant had his money, but did not deliver promptly. We suggest that if the merchant wants to ship later, *let him send it COD*. That way, you don't part with your money until the goods arrive.

Most reputable dealers sell equipment at about the same price as their competition. They have a similar profit margin, and costs. Prices far below the norm should be suspect.

Check with your friends, have they used this merchant, and were they satisfied with him?

An informed consumer is much less likely to purchase an item that he will be unhappy with, or that was misrepresented.

ALL PURPOSE TERMINALS

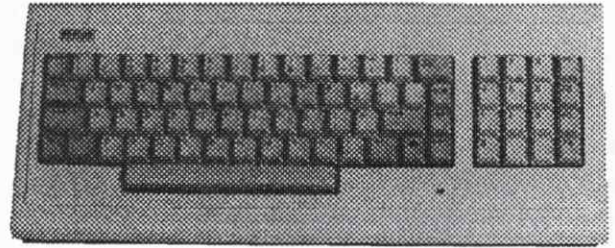
Manufactured by RCA **\$75.00 ea.**

APT is a high quality self-contained computer terminal loaded with many features,

a super value for the ham or hobbist. Just add a motor, plug in your TNC, and go.

- Built-in 100 or 300 Baud modem with RJ11 port.
- Video or rf outputs allow use of either monochrome or TV type monitor.
- Parallel printer port for connection of a printer,
- Serial (DB-25) RS-232 port for connection of TNC or other peripheral.
- Selectable 40 or 80 column display.
- Selectable word wrap feature.
- Acoustical coupler input for connecting outboard telephone coupler.
- Auto Log-on feature for automatic answering modem calls.
- A \$500 value when new, this APT is close-out priced at \$75.

These terminals are very clean units removed from service. Instruction manual, wall cube power supply and TV selector switch included.



SURPLUS SALES OF NEBRASKA

1315 Jones Street • Omaha, NE • 68102

Booths 123-130 —Visit our display for connectors, tubes, toroids, wire, and other quality Hard-To-Find parts.



EAGLE INTERNATIONAL COMPANY, LTD.

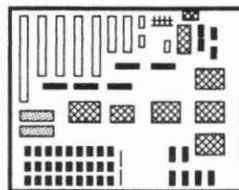
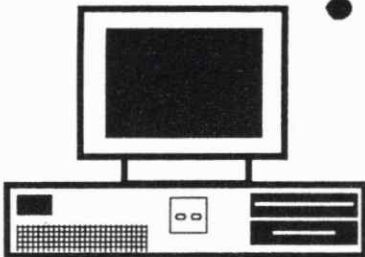
224 West Blvd.
Charlotte, NC 28203
(704)376-2288

Suntech Computers

1-800-541-1251
Telex: 8106210023
Fax (704) 376-8989

Welcomes you

- DEALERS • CONSULTANTS • RETAIL
- Systems • Motherboards • Controllers



- Monitors • Hard Drives • ETC

•• SEE US AT BOOTH 86 ••

ICOM

IC-24AT
IC-32AT

WE CHALLENGE YOU TO A DUAL.

ICOM'S DUAL BAND HANDHELDS

ICOM's IC-24AT and IC-32AT call you to action with the most feature packed, power packed dual band handhelds available. Whether you prefer the convenience of a mini-handheld or the grasp of a full-size handheld, ICOM has the dual-bander fit for you.

The IC-24AT mini-handheld and the IC-32AT give you full operation on the 2-meter and 440MHz amateur bands. Outstanding Performance!

POWER PACKED HANDHELDS.

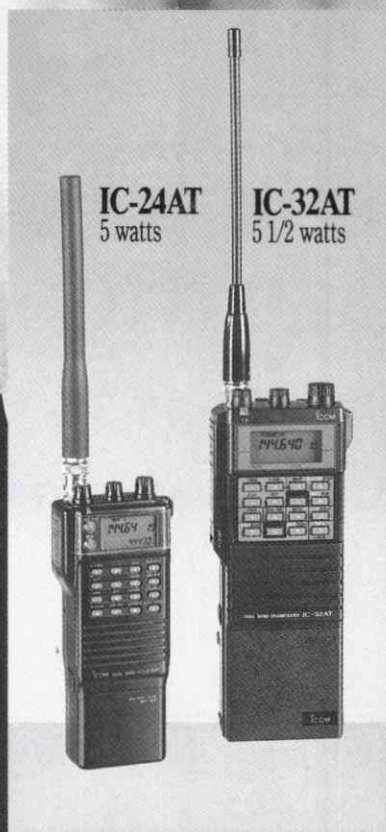
The IC-24AT provides up to 5 watts on 2-meters and 440MHz with a 12V battery while the IC-32AT is 5 1/2 watts on 2-meters and 5 watts on 440MHz.

PLENTY OF MEMORIES. Store any frequency, Tx offset and subaudible tone in any memory. Total flexibility to meet your needs.

PROGRAMMABLE SCANNING. Both units scan band and memories plus offer easy memory lockout and instant memory recall.

PRIORITY WATCH. Monitor the call channel, a memory channel or all memory channels every five seconds while operating!

ADDITIONAL FEATURES INCLUDE: Battery saver, all subaudible tones, multi-function LCD readout,



dial selectability and DTMF pad for memory channel auto-patching. The compact light-weight IC-24AT also features a 24 hour clock with timer, and an autodialer. Access to multi-digit phone numbers at the touch of a button.

ACCESSORIES: The IC-24AT uses accessories from the "S" Series handhelds while the IC-32AT is compatible with all IC-2AT/02AT accessories. An optional UT-40 beeper silently monitors a busy channel for your calls. When the preprogrammed subaudible tone is received, the unit beeps and the LCD flashes.

The dual is over, ICOM's IC-24AT mini-dual bander and IC-32AT full-size dual bander give you maximum performance in the package best suited for your needs. Check you local ICOM dealer for the finest dual banders available today. The ICOM IC-24AT and IC-32AT.

ICOM
First in Communications.