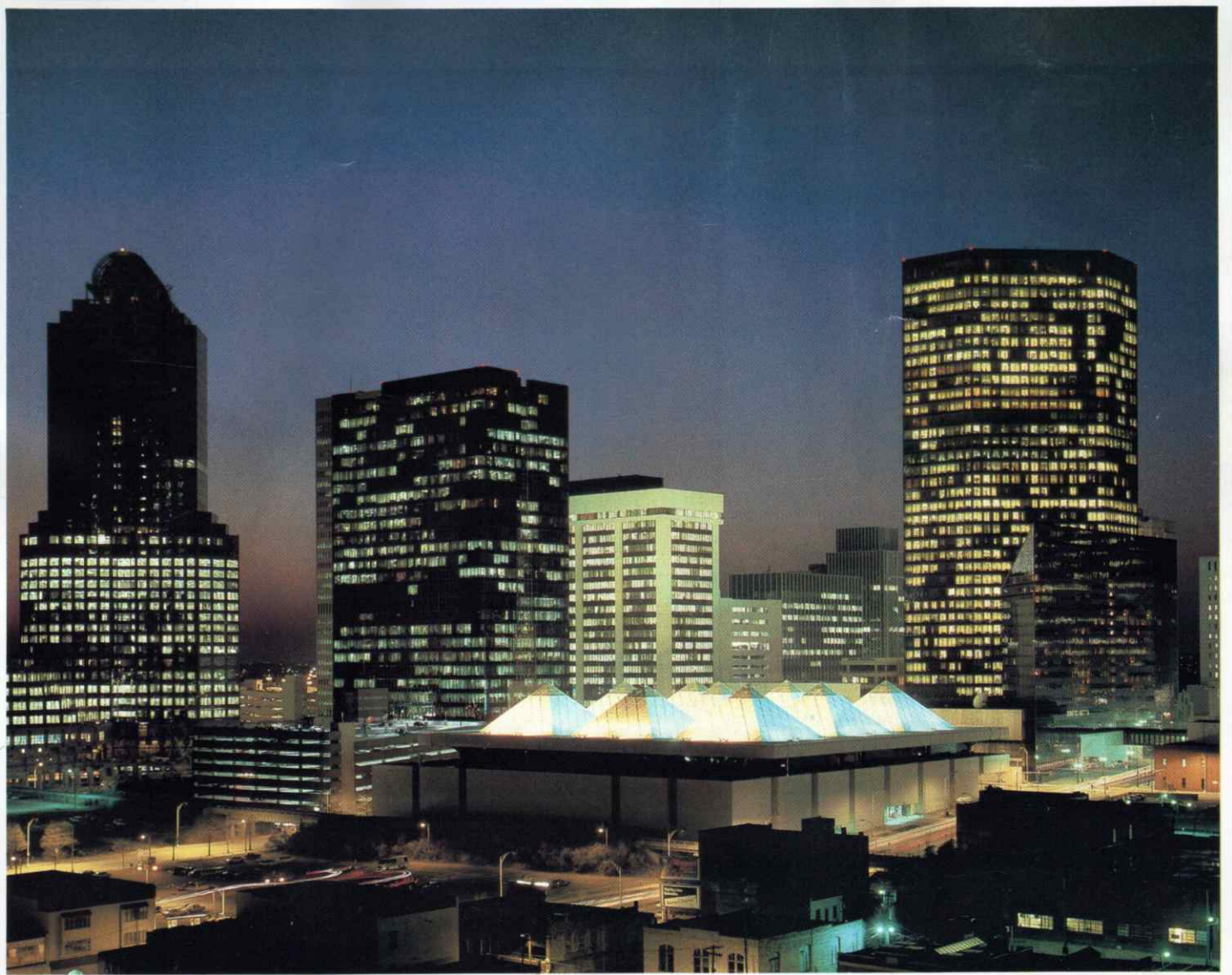

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CHARLOTTE

HAMFEST AND COMPUTERFAIR



March 18 and 19, 1989

KENWOOD

pacesetter in Amateur Radio

All-mode
tri-bander!

Warp Drive!



TS-790A Satellite Transceiver

The new Kenwood TS-790A VHF/UHF all-mode tri-band transceiver is designed for the VHF/UHF and satellite "power user." The new TS-790A is an all-mode 144/450/1200 MHz transceiver with many special enhancements such as Doppler shift compensation. Other features include dual receive, automatic mode selection, automatic repeater offset selection for FM repeater use, VFO or quick step channel tuning, direct keyboard frequency entry, 59 memory channels (10 channels for separate receive and transmit frequency storage), multiple scanning and multiple scan stop modes. The Automatic Lock Tuning (ALT) on 1200 MHz eliminates frequency drift. Power output is 45 watts on 144 MHz, 40 watts on 450 MHz, and 10 watts on 1200 MHz. (The 1200 MHz section is an optional module.)

- **High stability VFO.** The dual digital VFOs feature rock-stable TCXO (temperature compensated crystal oscillator) circuitry, with frequency stability of ± 3 ppm.
- **Operates on 13.8 VDC.** Perfect for mountain-top DXpeditions!
- **The mode switches confirm USB, LSB, CW, or FM selection with Morse Code.**
- **Dual Watch allows reception of two bands at the same time.**
- **Automatic mode and automatic repeater offset selection.**
- **Direct keyboard frequency entry.**
- **59 multi-function memory channels.** Store frequency, mode, tone information, offset, and quick step function. Ten memory channels for "odd split."
- **CTCSS encoder built-in.** Optional TSU-5 enables sub-tone decode.
- **Memory scroll function.** This feature allows you to check memory contents without changing the VFO frequency.

- **Multiple scanning functions.** Memory channel lock-out is also provided.
- **ALT—Automatic Lock Tuning—on 1200 MHz eliminates drift!**
- **500 Hz CW filter built-in.**
- **Packet radio terminal.**
- **Interference reduction controls:** 10 dB RF attenuator on 2m, noise blanker, IF shift, selectable AGC, all mode squelch.
- **Other useful controls:** RF power output control, speech processor, dual muting, frequency lock switch, RIT.
- **Voice synthesizer option.**
- **Computer control option.**

Optional Accessories:

- **PS-31** Power supply • **SP-31** External speaker
- **UT-10** 1200 MHz module • **VS-2** Voice synthesizer unit • **TSU-5** Programmable CTCSS decoder
- **IF-232C** Computer interface • **MC-60A/MC-80/MC-85** Desk mics • **HS-5/HS-6** Headphones
- **MC-43S** Hand mic • **PG-2S** Extra DC cable



Complete service manuals are available for all Kenwood transceivers and most accessories. Specifications, features, and prices are subject to change without notice or obligation.

KENWOOD

KENWOOD U.S.A. CORPORATION
2201 E. Dominguez St., Long Beach, CA 90810
P.O. Box 22745, Long Beach, CA 90801-5745

Chairman's Welcome

Greetings,

On behalf of the Mecklenburg Amateur Radio Society, and the 1989 Charlotte Hamfest committee, we wish to welcome you to the 1989 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 provide you with the best convention of its type in the Southeast. We want you to have a superb and entertaining time.

We wish you the best for the weekend, have a safe trip home, and start planning now for the third weekend in March for the 1990 Charlotte Hamfest and Computerfair.

73, (Best Wishes),

Bob Thomas, KB4QR **Mary Biggs, KA4EXP**
Hamfest Co-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 Preregistration
 4:00 Saturday Main Prizes
 2:00 Sunday Main Prizes

Exhibitor Information

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

Charlotte Hamfest & Computer Fair
 Dealer Chairman
 P.O. Box 221136
 Charlotte, NC 28222-1136

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 convention area, contact W4BFB/R on 146.34/146.94.

Program Advertising

To receive information on becoming an advertiser in the 1990 edition of our program, write to:

John Ratterree, KB4VDJ
 Crown Advertising & Printing
 P.O. Box 12353
 Charlotte, NC 28220

Prizes

Saturday (Drawing at 4:00 PM)
Pre-Registration Prize: (10:00 AM)
 ICOM 2M Hand Held

- First Prize - ICOM IC-735 HF Transceiver
- Second Prize - ICOM IC-28A 2M Mobile Transceiver
- Third Prize - ICOM MICRO-2 AT Hand Held

Sunday (Drawing at 2:00 PM)

- First Prize - Kenwood TS-440 HF Transceiver with Antenna Tuner
- Second Prize - Kenwood TS-711 2M all Mode Transceiver
- Third Prize - Kenwood TM 221A Mobile Transceiver

Special Hourly Prizes

MFJ-422 BF Keyer and Paddle
 Packet - Amtor - Kiss Multimode Controller

Plus many many more

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, Kenwood, and MFJ** 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	4th Street Room	Trade Street
11:00	Contest Operation from P40V - New World Record CQWW - Joe Adams, VE3CPU	How to get started in Packet Radio Packet BBS Operation
12:00	Amateur Fast Scan TV - Howard Cochran, W4PPN	Packet Radio Net - Working - Bob Austen, N4CLH - Ken Dresser, KK4L - Jerry Malin, WB2LEI
1:00	ARRL	
2:00	DX-Pedition to Willis Is. & Mellish Reef - Carl Cook, AI6V	John Champa, K8OCL - AMSAT Exec. Vice Pres. Working DX Oscars - 10 & 13
3:00	John Champa, K8OCL - AMSAT Exec. Vic Pres. - Future of the Amateur Space Program	Introduction to Amateur Radio - How to get started - Ralph Eubanks, KK4FC - Bill Jordan, AA4ZF
4:00	Open	Open

Sunday Forums

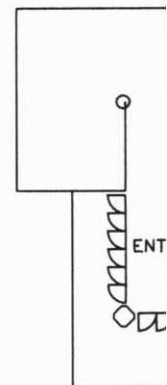
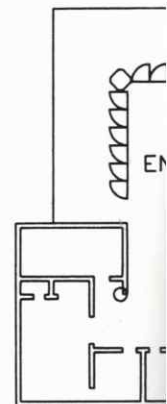
Time	4th Street Room on the South Side of the Building
11:00	DXAC - Don Search, W3AZD
12:00	Open
1:00	Open

Participating Dealers

73 Magazine	33	Nuts and Volts Magazine	79
Advanced Electronic Applications	45, 46	Ocean Micro Distributers	63, 64
Alinco Electronics Inc.	55, 57, 59	Omar Electronics	38, 40, 42, 44
Ameritron	23	Pac-Comm Packet Radio Systems	58
Amsat	144	Packet Group	143
ARRL Booth	25	Pan World International	88
Biznet Information Systems	167	Paramount Communications Electronics	29, 30
Carolina DX Association	111	Phoinix Arrising, Inc.	15
Carolina SSB Net	109	Public Brand Software	89, 90
Certified Communications	160, 161, 162	QRZ Industries	60
Computer Bug	121, 122	QSL Bureau	113
Computer Outlet	39, 41	QSL's By W4MPY	71
CQ Magazine	91, 92	Ramsey Electronics	31, 32
Data World's Micros To Go	105, 106	RF Parts	37
Delaware Amateur Supply	146, 147, 148, 149	RLW Associates	24
Den-Tronics	20	Roman Gabriel Cellular Systems	116
Discount Discs	17, 18	Rope Rope Rope	141, 142
Doc's Communications	66, 68, 70, 72	Smiley Antenna & B&B Instruments	65, 67
E.H. Yost (Mr. Nicad)	5	Sound Advice	120
E.S.R.C.	35	Surplus Sales of Nebraska	125-130
Ege, Inc.	2, 4, 6, 8, 10	Ten-Tec Incorporated	117, 119
Ehrhorn Tech Operations	139, 140	Tennessee Computer Sales	49, 51, 53
Eil Instruments	69	Texas Comm Center	165, 166
Electronic Associates	47, 48	The Ant Farm	81
Electronic Specialist	26, 28	The Barkley Company - Publishers	73
Encyclopedia Brittanica	115	The Ham Station	83, 85, 87
Gap Antenna Products	43	The Radio Works	107, 108
Gifted Creations	118	The Sign Man III	27
Greentree Computers, Inc.	101, 102	Trio-Kenwood	151, 152, 153
H.C. Van Valzah Co.	110, 112, 114	Try-It Software	11, 13
Hamrad	36	United Computer Resources of Alexandria	34
Hamtronics, Inc.	80, 82, 84, 86	United Computer Resources of New Jersey	1, 3
Harold Heaster Inc.	123, 124	Williams Radio Sales	61, 62
Icom America Inc	74, 75, 76	Wizardware Ltd.	163, 164
J.R.S. Distributors	50, 52, 54, 56	Yaesu Electronics Corporations	12, 14, 16
K A O Industries Inc.	7, 9	York Technical College	22
Lincoln Computer Center	77, 78		
Lynk Technology	93, 94		
MFJ Enterprises	19, 21		
Micro Products, Center, Inc.	156, 157, 158		

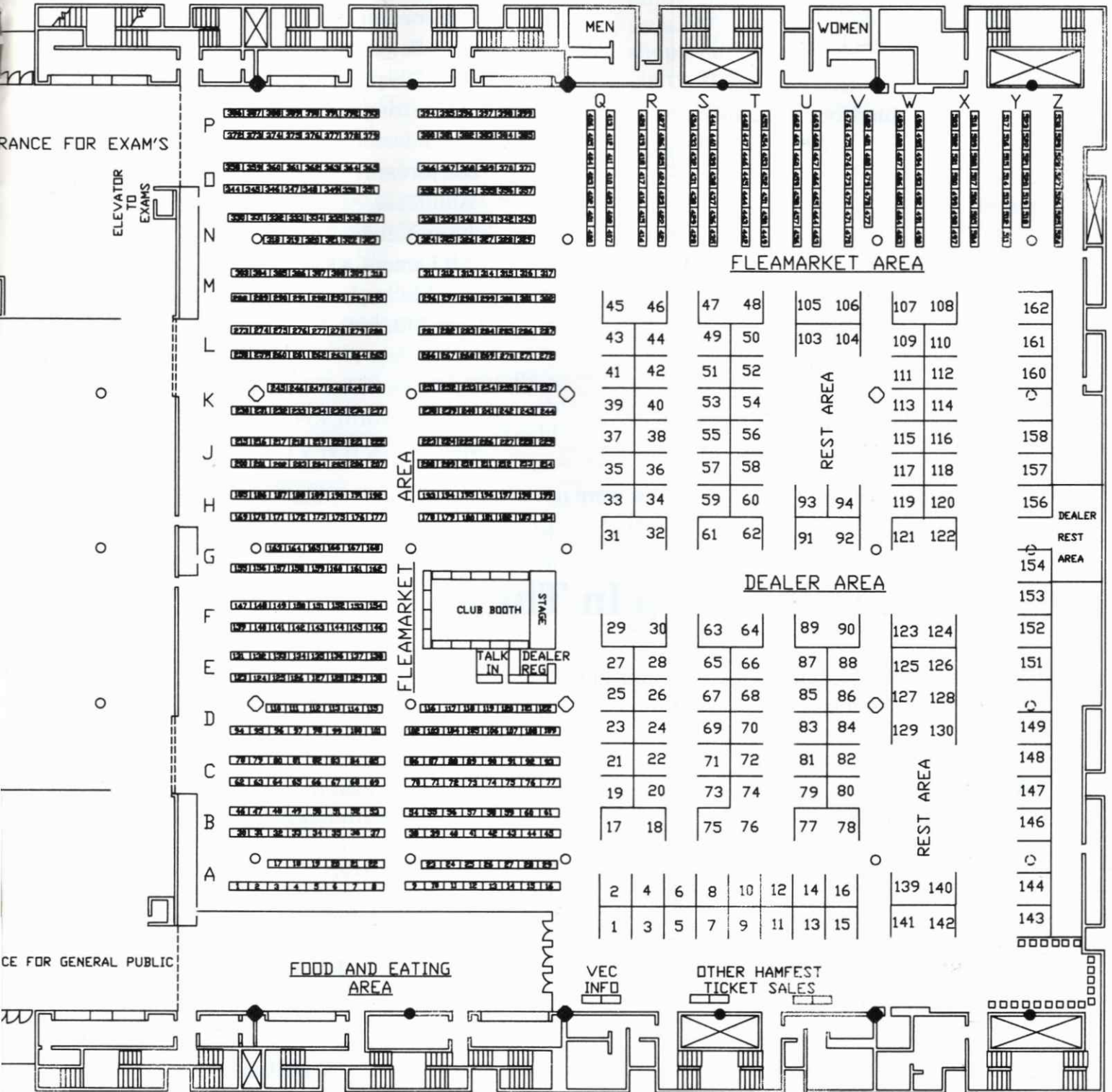
*Dealer Participation, Location, Map & Floor plan are all subject to change without notice

S. COLLEGE STREET



Mecklenburg Amateur Radio Society Hamfest and Computer Fair

E. TRADE STREET
CHARLOTTE CONVENTION CENTER



CHARLOTTE CONVENTION CENTER

E. 4TH STREET

FOURTH STREET

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

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Clyde Weddle, KF4WY

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Dave Mitchell, AJ5F
Tim Slay, WO4G
Cy Rowe, WA4FSA
Bob Southworth, KI4YV
Mac Wood, W4PVT

Plus others whose names were not available at press time.

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. What do all those people do for fun? Here's a sample of Charlotte's wide variety of dining, shopping and entertainment possibilities!

Dining

Alexander Michael's, 401 W. 9th St.
Continental cuisine in Charlotte's historic Fourth Ward. Casual.
Price range: \$8 to \$18.

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

Cajun Queen, 1800 E. 7th St. New Orleans Restaurant and Bar. Casual, cajun/creole cuisine, live music.
Price range: \$8 to \$18.

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

Fat Tuesday's, Cityfair, corner of North Tryon and Sixth St. An entertaining place with a New Orleans flavor. Frozen drinks are the specialty.
Price range: \$8 to \$13.

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

(continued on next page)

Dining (continued)

Ivey's Terrace, Ivey's Department Store, 127 N. Tryon St. American cuisine and a great view. Casual.
Price range: under \$8.

Jonathan's Uptown, 330 N. Tryon St. Fine American cuisine served in a casual but very jazzy atmosphere. Live music. Next to Spirit Square Arts Center.
Price range: \$13 to \$18.

Lamplighter, 1065 E. Morehead St. American cuisine. Jacket required. A very special Charlotte tradition.
Price range: \$18 and up.

Long Horn Steaks, 700 E. Morehead. Long neck beers and the best steaks in town served in a Texas atmosphere. Try Flo's Filet! Casual, and there's usually a short but worthwhile wait — just enough time to check out the jackalopes and light fixtures.
Price range: \$8 to \$13.

Nicky's Rodeo, 731 Providence Rd. Another great steak place with a Western touch. If it's warm, sit on the deck and watch Providence Road go by. Casual.
Price range: \$8 to \$13.

Papa Doc's Pig Palace, 215 W. 2nd St. Barbecue! Casual atmosphere.
Price range: Under \$8.

Riccio's, 116 Middleton (off Providence Rd.) Italian cuisine.
Price range: \$8 to \$13.

Slug's 30th Edition, 30th Floor of First Union Tower. Continental cuisine with a fabulous view of Charlotte. Go for lunch to see Charlotte and beyond, for dinner to see the lights. Jacket required.
Price range: \$13 to \$18.

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

Shopping

Cityfair, corner of North Tryon and Sixth Streets. This is Charlotte's new shopping, dining and urban entertainment complex. Visitors and residents alike gather here to enjoy the sights, sounds, aromas and sensations of a community fair. Retail shops include a variety of unique specialty shops, along with conventional shops and festive kiosks and carts.

SouthPark Mall, 4400 Sharon Road. This is a "city within a city," with more stores than any location in the Carolinas. Browse in more than 111 specialty and department stores, including Belk, Ivey's, Thalheimer's, Laura Ashley and many others. Hungry? Try any number of fast food restaurants at SouthPark's Food Court.

Specialty Shops on the Park, 6401 Morrison Boulevard, across from SouthPark. More than 20 fascinating specialty stores, including Alexander Julian, Joseph A. Bank, The Carriage, Piccadilly Collection, Talbot's and Willis & Geiger.

Entertainment

St. Patrick's Day Parade. Saturday, March 18, 12 noon. Uptown Charlotte, along Tryon Street from 9th to Stonewall. Leprechauns abound in this display of Irish whimsy, Charlotte-style.

Discovery Place, 301 N. Tryon St. One of America's top hands-on science and technology museums, geared toward adults and children. Current exhibits: "Space Spinoffs" explores the challenges created by the space environment. "Oceans of Promise" features present and future uses of the seas. A good visit takes two to three hours. Admission: Adults, \$4; students, \$3; children 3-5, \$2; children under 3, free; senior citizens (60-plus), \$3.

(continued on next page)

Entertainment (continued)

Spirit Square, 110 E. 7th St. Charlotte's center for the arts provides exhibits of the visual arts in four galleries, year-round classes and workshops and a nine-month performance season. March 18, 8:15 p.m.: Nina Wiener and Dancers, modern dance company. Ticket information: 704/376-8883.

Theater Charlotte, Queens Road. Non-professional community theater. "The Children's Hour". 8:15 p.m. Ticket information: 704/334-9128.

Hodges Taylor Gallery, 227 N. Tryon St. Current exhibit: "Robert Marsh: Recent Works." Free. Information: 704/334-3799.

"**South Pacific**" starring **Robert Goulet**. Ovens Auditorium, 2700 E. Independence Boulevard. Saturday, March 18, 2 p.m. and 8 p.m. Ticket information: 704/342-0133.

Carowinds, off I-77 South. 77 acres of rides, shows, shops and restaurants. Call 704/599-2606 for Spring operating schedule.

Mint Museum, 2730 Randolph Road. Art museum. For exhibit information: 704/337-2000.

Antique Flea Market, Metrolina Fairgrounds, 8 a.m. - 5 p.m. I-77 north to Highway 21. Admission: \$1. Information: 704/596-4643.

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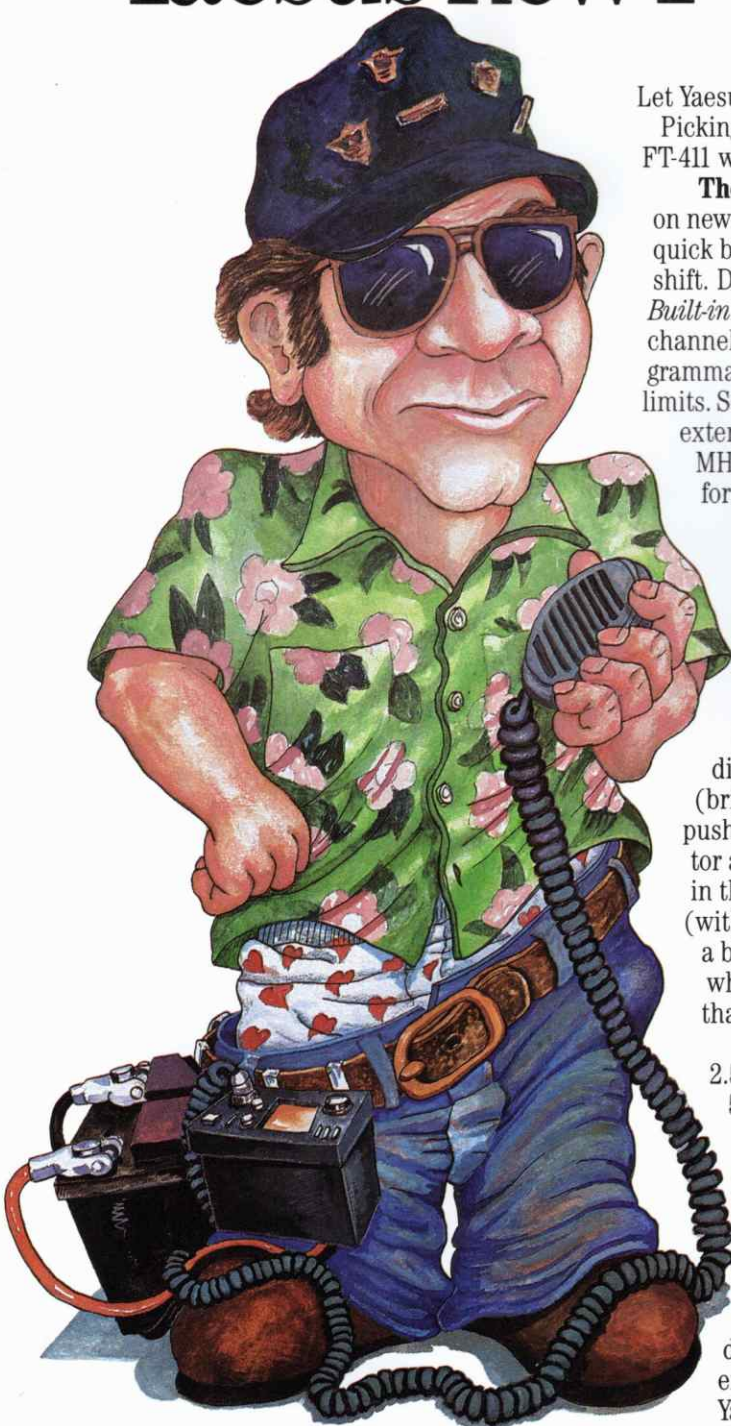
224 N. Broadway
Salem, New Hampshire 03079
Information: (603) 898-3750
FAX: (603) 898-1041

Store Hours: MTuWF 10-5
Th: 12-8; Sat: 10-4



03/89

You'll be hard-pressed to beat the performance of Yaesu's new FT-411 handheld.



Let Yaesu's "next generation" handheld lighten your load!

Picking up where our popular FT-209R Series left off, the 2-meter FT-411 will amaze with its astounding array of features!

The brains of a base station. "Sophisticated operation" takes on new meaning in the FT-411. You get 49 memories, plus dual VFOs for quick band-hopping. Keyboard frequency entry. Automatic repeater shift. DTMF autodialer with ten memories of up to 15 digits each. *Built-in CTCSS encode/decode.* Selectable channel steps: 5/10/12.5/20/25 kHz. Programmable band scan with upper/lower limits. Selectable memory scan. And extended receive coverage of 140-174 MHz (MARS/CAP permit required for transmit on 140-150 MHz).

Not bad for a handheld measuring just 55(w) x 32(d) x 139(h) mm (the same size as our FT-23R Series HTs)!

Friendly operation. For operating convenience, the FT-411's keypad features a "do-re-mi" audible command verification. Both the display and keypad can be backlit (brightly!) for night operation at the push of a button. A rotary channel selector allows fast manual tuning. Or key in the frequency directly. Operate VOX (with YH-2 headset option). Plus you get a battery saver to conserve power while monitoring. And a (defeatable) automatic power-off feature that shuts down your radio if you forget to turn it off!

High power capability. The FT-411 comes equipped with the 2.5-watt, 600-mAh FNB-10 battery pack. Try our optional FNB-12 5-watt, 500mAh pack or tiny FNB-9 2.5-watt, 200-mAh pack. Or get 6 watts output by applying 13.8-volts DC from an external power supply.

Swap options with Yaesu's FT-23R Series. Our rugged best-seller's chargers, batteries, and microphones are fully compatible with the FT-411. The FT-23R is the perfect companion for the FT-411, and at a great price!

Try out an FT-411 today. Ask for it now at your local Yaesu dealer. Or call 1-800-999-2070 for a free brochure. And experience the legendary Yaesu HT performance!



YAESU

ICOM

IC-725 HF Transceiver



HOME IS WHERE YOUR IC-725 IS

Fixed, mobile or portable, ICOM's new IC-725 delivers band-commanding performance. The easy-to-operate IC-725 reflects ICOM's world-renown excellence in circuit designs, versatility and dependability. Your enjoyment is also guaranteed with ICOM's one full year warranty!

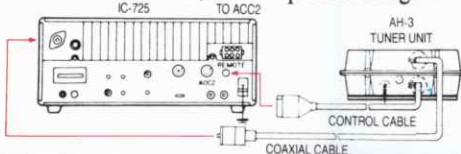
SMALL SIZE, BIG PERFORMANCE!

Extraordinary Performance! Includes: 160 through 10 meter operation • 100 watts output • Shortwave reception from 100kHz to 33MHz • SSB, CW and AM modes (FM optional) • Sensitive 105db dynamic range receiver • Low noise DDS switching • Panel-selectable RF preamp and attenuator • Dual VFO's • Selectable AGC • Rugged full duty cycle finals.

GLOBE-SPANNING OPERATION!

Full Featured Operation! 26 tunable memories with Band Stacking Registers which enable you to store a frequency, switch bands, and return to the stored frequency • 10Hz digital frequency display • Three tuning rates • Three scan modes • Highly effective Noise Blanker • RIT • Semi-QSK CW • Optional narrow CW filter • Built-in AH-3 controller • IC-725 measures only 9.0 x 3.7 x 9.4 inches (H, W, D).

Optional AH-3 automatic and remote antenna tuner for mobile and portable operation. Plugs



directly into the IC-725. Wide impedance matching range. Mating whip unit (AH2-B) bolts to auto's frame, works 80-10 meters.

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ICOM CANADA, A Division of ICOM America, Inc., 3071 - #5 Road, Unit 9, Richmond, B.C. V6X 2T4 Canada

All stated specifications are subject to change without notice or obligation. All ICOM radios significantly exceed FCC regulations limiting spurious emissions. 7251288

