

&
National
Geographic
Society





Goal

- Radio Expeditions goal is to use microphones the way National Geographic's photographers use cameras - to create powerful, compelling images to tell a story about the natural world and the creatures that inhabit it.





Obeying Many Masters: Technology and Technique

Field Production

- Sound that will “take you there.”

Spaced omnis

- Good stereo/Good surround

Compatible for stereo radio
broadcast





Non-Broadcast Formats

- Radio Expeditions **Live**
- Radio Expeditions **Digital Products**





Radio Expeditions Surround



Audio Engineering Society

Conference Papers



**19th Conference
Schloss Elmau, Germany
2001 June 21-24**

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About the AES

Notice

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Practical Surround-Sound-Production

Part 2: TV-Documentaries

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*Workshop at the 19th AES-Conference,
June 2001, Schloss Elmau, Germany*

General requirements for multichannel-microphone-setups on location:

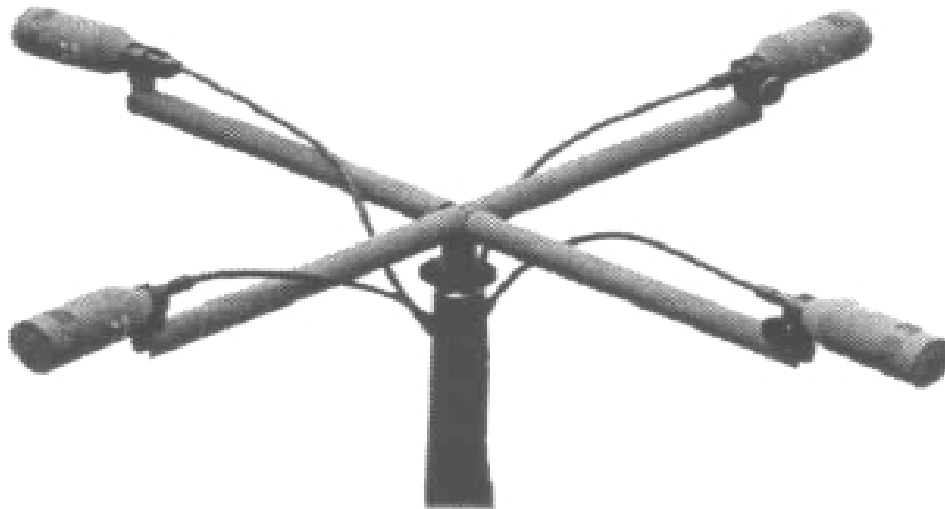
- compact, small, easy to setup
- light-weight (one-man-operation)
- professional mount and windscreen;
- ✦ must endure rigors of location (rough handling, dirt, dust, high and low temperatures, humidity)
- high-quality-microphones:
 - very low noise floor
 - frequency response (20) 40 Hz – 18 kHz
 - little off-axis colouration
 - polar pattern reasonably constant with frequency

4 microphones in the corners of a square

Advantages: when using omnis excellent low frequency response and low susceptibility to handling noise and wind

Examples:

- .) 4 Omnis : distance between the microphones ca. 40 cm – 1,5m depending on application
- .) 4 Cardioids: distance between the microphones: 21 cm, angle: 90° („Double-ORTF“) \Rightarrow this is the so-called „IRT“-cross or „Theile“-cross /3/ (after G.Theile, head of the audiodepartment at the IRT – Institute of Broadcast Technology), see **Fig.5**



Central African Republic





Mosquito Netting



Bug Hut Control Room



Control room - detail

Portability



Portabiliteam





Technology and Technique

Post Production

- Place limitations on the surround mix

KISS

Reduce need for down mix

**Easy conversion of ambience beds
for stereo broadcast**







