

# ATRC Plenary Technical Meeting

## HDTV Data Compression

December 11, 1990

# WELCOME !

- **This is an historic event!**
- **Opportunity to compare and contrast several data compression approaches for HDTV Simulcast**
  - share many common benefits of digital
  - each system has many clever aspects
- **Today is the result of much excellent work**

## Key Contributors

- **Sarnoff QMF System**

- *Charlie Wine*                      *Jerry Shapiro*                      *Raj Hingorani*
- *Bob Siracusa*                      *Kuriacose Joseph*                      *Sheau Ng*
- *Joel Zdepski*                      *D. Raychaudhuri*

- **NAP Hybrid-VQ System**

- *Faramars Azadegan*    *Yo-Sung Ho*

- **Euro DCT System**

- *Dietrich Westerkamp*    *Hartmut Peters*
- *Olivier Chantelou*    *Gilles Nocture*                      *F. Hottier*

- **TCE MPEG System**

- *Regis St. Girons*

- **Test and Evaluation**

- *Detlef Teichner*                      *Sheau Ng*

- **Hardware Evaluation**

- *Allan Cavallerano*    *Joel Zdepski*

## More Key Contributors

### Thomson

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### Philips

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### NBC

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Jerry Shapiro  
Bob Siracusa  
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Joel Zdepski

## ATRC -- Compression Goals

- **True HDTV quality in 6 MHz**
- **Robust performance (even with bit errors)**
- **Ability to achieve multiple tiers of service (for hierarchy and graceful degradation)**
- **Acceptable cost for consumer electronics**
- **Acceptability to FCC and U.S. industry**
- **Acceptable risk for FCC schedule**

## Today's Goals

- **Learn Source Coding similarities and differences**
- **Learn about performance with transmission errors**
- **Achieve consensus on technical points**
- **Make a recommendation to ATRC management**

# AGENDA

- 9:30**      **Welcome and Introduction**
- 10:00**     **System Descriptions and Hardware Evaluation**
- 11:30**     **Lunch**
- 12:30**     **Source Coding Demonstartions and Evaluations**
- 2:30**      **Evaluation Results, Conclusions and Recommendations**
- 4:00**      **ATRC Source Coding Decision and Recommendation  
to Management and Architecture Team**
- 5:00**      **Concluding Remarks**