PREVIEW

TECHNICAL EYE OPENER WORKSHOP

SYSTEM REQUIREMENTS FOR TWO-WAY

Sponsor

Society of Cable Television Engineers

National Organizer

Robert Bilodeau
Suburban Cablevision
West Orange, N. J.

Moderator/Organizer

Warren L. Braun, P.E.
Com-Sonics, Inc.
Harrisonburg, Va.

Panelists

James W. Stilwell
Tele-Systems Corp.
Elkins Park, Pa.

Edward Callaghan
American TV & Communications
Denver, Colorado

Nick Worth
TeleCable Corp.
Norfolk, Va.

Tim Ellers
The MITRE Corp.
McLean, Virginia

Steve McVoy
Coaxial Scientific Corp.
Sarasota, Fla.

Richard T. Callais
Theta-Cable
Inglewood, California

Each of the panelists will provide a 10-minute thumb nail sketch of their practical experience with two-way CATV systems, with application to the day-to-day system operation, together with the system design constraints that result from their findings.

Mr. Stilwell's comments will be focused on system ingress problems, with comments on remedial technology, i.e., instrumentation to locate sources of system ingress and upstream spectrum analysis. Comments will also be directed to hardware and maintenance limitations.

Mr. Callaghan's talk and comments will be oriented to the following areas of concern:

I. CATV system should be designed initially as a two-way system.

II. Unique requirements for two-way system components.

III. Reverse path design considerations.

IV. Other considerations

TeleCable operates sub-low-return CATV systems in Spartenburg, S. C. and Overland Park, Kansas. In each of these systems, extraneous signal ingress has proven to be a problem requiring special measures to reduce the ingress to manageable levels. Mr. Worth will cover system requirements and TeleCable's experience in solving these problems.

Mr. Ellers will comment on MITRE's experience with interactive signal communication, resulting in revised engineering requirements for two-way circuit signal implementation. His discussion

will be focussed on system requirements viewed through the end use of the system in interactive mode.

Mr. McVoy will review their system experience with two-way responsive signaling. He will be unveiling a recently developed unique solution that solves many of the more difficult upstream system problems. Detailed information of this system will be disclosed in Mr. McVoy's presentation.

Mr. Callais will discuss the field experience and data accumulated from the SRS (Subscriber Response System) operation at Theta-Cable. Data will be presented and conclusions drawn. A technical paper will be available at this session.