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## ABSTRACT

The purpose of this paper is to presen a developed, methodological approach for the study of cable television stations affiliateú with higher education institutions, and also to present significant findings detailing the operational problems of higher education-affiliated cable television stations. Based on a literature search which identified over 100 variables, four critical areas of concern for higher education-affiliated cable television stations were selected: organization; budget; personnel; and equipment. A questionnaire which addressed these areas was administered via telephone to 92 directors or chief executives of college- and university-affiliated cable stations. Data analysis of 87 completed interviews identified the following trends and problems: (1) inadequate equipment and personal funding by most coljeges and universities; (2) lack cf financial commitment from cable companies; (3) lack of sufficient release time for station directors; (4) dependence upon student assistants; (5) inadequate professional development opportunities; (6) overutilization and insufficient stock \f equipment; (7) lack of adequate physical plant; and (8) little or no strategic planning for equipment updaie. A list of references and sample questionnaire complete the document. (JB)

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## A METHODOLOGY IN STUDYiNG higher EDUCATION

 AFFILIATED CABLE TELEVISION STATIONS1986 AECT Annual Conference<br>Las Vegas, Nevada Jan.21,1986

Research and Theory Division

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## Abstract

The purpose of this paper is two fold. First, to prerent a developed methodological approach for the study of cable telfuision stations affiliated with higher education institutions; and second, to present the signficant findings detailing the operationa! problems of tigher education affiliated cable television stations.

The paper will highlight an extensive l. ure search and a resulting conceptual framework utilized throughout the 1 tigation. The literaiure search he:ped identify over 100 variables. The conceptual franework devaloped identified and clustered critical issues of concern on the operations of cable television stations. Variables were clustered under the four primary areas of interest: (1) organization; (2) budget; (3) personnel; and (4) equipment.

A constructed questionnaire which addressed this conceptual framework provided the guided protocol used during the 20 to 30 minute telephone interviews. Ninety-two directors or chief executives of higher education affiliated cable stations were surveyed.

Internal and external validity of the questionnaire was controlled in part by extensive pre-study screening by professional reviewers. Subsequent instrument revisions allowed for a majority of questions to be presented as a statement to which a reaction along a value-continuum scale would be offered. The instrument also prou.ded the opportunity for open-ended statements which were analyzed post-hoc given percelved patterns.

The investigators will identify strategies and techniques utilized in the development of the questionnaire protocol. The consuming telephona survey method will be discussed in terms of results and impact not readily attainable through other research methods.

Discussion of the research findings will focus upon the four major areas of interest. Data summaries will be presented concentrating on the most signficant problems identified.

## A METHODOLOGY IN STUDYING H!GHER EDUCATION AFFILIATED CABLE TELEUISION STATIONS

## Backaround

For the past 40 years, television has been primarily a droadcasting medium. Signals were transmitted from antennas located on towers and picked up by home antennas. This system limits the amount of channels that ran be broadeast due to overlapping and interference.

However, cable television has the potential to end the scarcity of channels. Many existing cable systems carry 20 television channels and some up to 40 (Williamns, 1982). Fiber optics developed at Bell Research Labs make possible a greatly increased channel capazity, numbering into the thousands of channels (Bittner, 1981). Furthar cable growth has been fostered by the elimination of some FCC regulations in 1978 by the cou'ts (Levenson, 1980).

Many colleges and universities have television sidios and often they are affiliated with local cable systems. These studios ... ve several purposes with the most important being the instruction and training of students. However, many of these studios also provide public access for the conmunity to the local cable company's channels. A study is needed to determine what prob'rms these studios are having in accomplishing their mission. Such a study wourd be a help in providirig an understanding of the services available ario assisting other colleges to examıne the option in television and education.

## Purpose

This study will focus on examining college and university affiliated cable television stations and the identification of their operational problems.

The purpose of this study is to present data on problems and concerns that a college should consider before starting a cable affiliated station.

There are four research questions that will be examined by the study. These questions will center around four areas: organization; budget; personnel; and, equipment. The four research questions to be answered are:

1. What organizational concerns can be identified in college and university cable affiliated stations?
2. What budget concerns can be identified in college/university cable affiliated stations?
3. What fersonnel concerns can be identified in college and uriversity concerns affiliated stations?
4. What equipment concerns can be identified in college/university rable affillated stations?

## Methodoloqy

Content Analysis

The purpose of this study was to gather data on the operational problems ot
college and university affiliated cable television stations. Survey research was utilized io gather the information as Babbie (1973) stated that survey research is useful in discovering the distribution of eertain traits or attributes. A descriptive survey was used, which according to lsaac and Micheal (1979), will collect data systematically to describe a situation or area of interest factually and accurately.

The method for data collection was telephone interviews. This method of collecting data was chosen due to very poor response rate to the initial pilot malling. Out of 20 questionnaires distributed as a pilot test, only four were returned. An alternative method of collecting data, telephone interviewe, was therefore selected.

The total identifiable populatior was 92 directors. The e facilities were identified from two sources: TV Guide Almanac: and the Journalism Directory 1983.

The following professional organizations were also contacted in an unsuccessful effort to identify more facilities; flpha Epsilon Rho; the Association of Educational Communisations and Technology; the Broadcast Educatior Association; and the National Cable Television Association.

It was also felt that the highest response rate would be obtained by telephone interyiews. This proved correct as 87 of the 92 directors that were in charge of facilities were interviewed. Thus, the response rate was $94.5 \%$. Participation was further encouraget in the frorise that resulta would be sent to each director.

Procedures
Eighty-seven of the 92 directors of higher education affiliated cable stations across the United States were interviewed. Telephone intervisws ensured that the correct person answered the questions and provided an opportunity of immediate clarification. Station listings in TV Guide Almanac and the journalism Directory 1983 were useful in identifying faci!ities but contained may errors when identifying the appropriate director. Some facilities had temporary or revoling directors making it more difficult to identify who was in charge at the present time. The secretary that answered the telephone was always able to give accurately and quickly the director's name. Often several telephone calls were necessary to establsh an appointment to do tha interview.

The interviews were conducted during the months of November and December of 1984. Eact interview took an average of 20 minutes with a few taking as long as a half hour.

The interview took the following format. First, the interviewer would give some background information on the project and the purpose of the research. Se:ondly, the interviewer would explain the questionnaire and its format. This would take one or two minites after which the interviewer would proceed through the questionnaire one question at a time until all the questions were completed. All directors were encouraged to volunteer infromation that was not covered by the questions. Few took the raportunity to provide any additional comments as most seemed to belleve that the answer choices provided by the questionnaire were satisfactory as to scope.

## Instrument Development

Before constructing the questionnarre, informational interviews and discussions with , arious professionals asscriated with the cable television industry and higher education were held. These discussions led to the
development of a preliminary questionnaire that was validated by a team of experts. The validators were each sent a draft of a questionraire and were asked to respond to any inconsistencies or ommissions. There were also follow-up interviews with the validators that forused on criticisms of the instrument in order to more fully redefine the questionnaire.

The validatiors were chosen carefully in order to provide input that was not only broad in scope but also specialized. All validators had a broad background in television, higher education and were able to bring unique talents that were neeeded to develop the questionnaire, The validatiors ifere also used as a pilot test. This was helpful in perfecting the interview technique before the other directors were interviewed.

Questionnaire

The survey questionnaire is divided into two parts; a copy of the compiete questionnaire is prouided in the Appendix. The first part helps identify some demographic information about the cable station. The secorid part requests specific information concerning the station and reiated problems based upon the primary research questions.

## Data Analysis

The data obtained from 87 completed interviews were coded and entered into the SPSS (Statistical Package for the Social Sciences) program housed in the Honeywell level 66 computer at the Indiana University of Pennsylvainia. There were 1 n 6 questions with 15,322 data points for this research project.

Several types of statistical data were obtained upon analysis. There were frequenc: counts for all answers, adjusted for missing data. Occassionally there were questions that the directors were unable or unwilling to answer, resulting in missing data.

Exploratory analysis of data revealed trends, identified probiems, and exposed areas of further research.

## Highlighted Findings

This investigation examined data obtained form telephone interviews to 87 higher education affiliated cable television stations. The comprehencsive study focused upon the primary areas of interest: l. Organization; II. Budget; IIl. Personnel; arid, IU. Equipment.

The following outlined summary of the major findings is not presented in rank order; rather, inighlighted issues or statemer.ts are prouided within these primary areas of interest.

## I. ORGANIZATIONAL PROBLEMS, "ATEMENTS

a. The data indicates a consistent finding of inadequate funding by most colleges and universities. The areas of equipment and personnel were most typically cited.
b. Most iocal cable companies do not intervene in the day to day operations of the station.
c. Most affiliated stations do sharp the provided cable channel with another prgramming source. The affiliated station is the sole source of programming for a previded channel.
d. Stations which have advisory boards percelve those boards as beirio
inactive or having a low level of activity. Related to this finding, most station directors do not recognize a need for a more active board.
e. Most stetion directors believe that providing or doing public access programming benefits the overall operation of the cable station.

1I. BUDGET PROBIEMS/STATEMCNTS
a. Higher education administrators want and demand that the station provide more services than the administration is willing or able to provide budgetary support for.
b. Linkages with other cable systems, for programming acquisitiors or or program delivery, were not evident. Related to this finding, there appears te be a limited return on investment.
c. Ouerwhelmingly, there does not seem to be a financial commitment from the cable company.

## III. PERSONNEL PROBLEMS/STATEMENTS

a. Most station director's time is divided among other institutional responsibilities apart form direct station management. Related to this, most director's perceive that they are not given sufficient release time for station duties.
b. Most stations are highly dependent upon student assistants. Given a predominantly student work force, programing and general studio work/tasks are not preformed in a timely or professionally consistant manner. c. There appears to be inadequate, ongoing, professional development for station directors.

## IU. EQUIPMENT PROBLEMS/STATENENTS

a. The data reveaied that there is a consistent pattern of overutilization of equipment and a general feeling of insufficient stock of equipment. This is especially evident given the numbers of students involved at most stations.
b. A consistent finding was the statement by station directors of the inadequacy of their current physical plant. This was particularly emphasized given the rapid growth of progr amnatic needs and advancements in technology.
c. Current equipment or projected patterns of equipment purchasing is perceived to be below desired levels of quantity and particularly quality. d. There appears to be little or no strategic planning for equipment ufdate. In most cases equipment must be expensively maintained beyond its usefil seryice life.

In summary, $t$ e findings indicate specific problems and issues which most higher education affiliater cable television stations must deal with. Trese problems and $15 s u e s$ appear consistent across different sponsoring institutions and across station structure or size.

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## A PROFILE ON CURRENT PROBLEMS OF COLLEGE AND UNIVERSITY CABLE AFFILIATED TELEVISION STATIONS

## PURPOSE

The purpose of this questionnalr? is to collect data on the status and problems of college and university affiliated cable television stations.

## WHO SHOULD BE COMPLETING THIS QUESTIONKIRE?

The Director, Coordinator, or day-to-day administrator of the cable station. By cable station we mean a facility that provides cablecasting to the college or university and the community.

## FORTAT OF THE QUESTIONAIRE

The questionnaire 15 broken into two parts. The first part helps identify some general demographis information about the rable station. The second part requests some specific information concerning the station and related pioblems. It also contains an opportuntiy for sharing some specifics not highlighted within this questionnaire.

It would be most beneficial if you anewen all the questions and statemenis as best you can. Youl should proceed through the questionnaire in order from theginning to end. The questionnaire has been designed to not only solicit information from you, but also to prouide a commn base of knowledge and sharing as you work through the questionnaire.

## SURUEY PARTICIPATION AND SHARING OF RESULTS

As part of the study, the principal investiga:or 15 willing to provide you a summary copy of the results should you desire to receive a copy.
Do you wish to receive a copy of the results (check)? Ye_ Yes___
If yes, please print or type this identification information-
Name: $\qquad$ $\overline{\text { Or } 1 M_{r}\left(M_{s}\right)} \overline{\text { (First) }} \overline{(M .1 .)} \longrightarrow$ (Last)
Title:
Contact
Addres5:


Office Phone: ( ) _ _

## PART I - GENERAL DEMOGRAPHIC INFGRMATION

1. Comolete name of college or university:
2.Please check which 15 applicable about your institution: $\qquad$ private $\qquad$ public
3.Overall enrollment sestimated): $\qquad$ undergraduate $\qquad$ graduate
Does your institution have continuing education (check): $\qquad$ Yes $\qquad$ No If yes: What 15 the appproximate enrollment $\qquad$
$\square$ -
2. Setting or location characteristics of the inst:tution. Check one-
$\qquad$ "rban (within the city limits of a major metropolitian center, 50,000 people)
____suburban (within one hour driving distance of a major metropolitian center)
____ rural (having no major metropolitian centers within a one hour driving distance)
5.Fill-in the requested information:

The year cable station was founded: $\qquad$
The year station became arfillated with a cable company: $\qquad$
ls vour station programing part of the basic cable fee (check \& answer)-
$\qquad$ Yes $\qquad$ No
If yes, what 15 the total monthy fee pald by subsr.ribers. s $\qquad$
If no, what is the base monthy fees and what is the additional fee for your station's programming. \$
6. What is the number of cable subscribers that
-can recelve your stations programming (potential): $\qquad$
-are recpiving your stations programing (actual): $\qquad$
7.Check one of the appropriate statements on channel reception:
_ Your station 15 received on one of the first 12 primary channels.
_ Your station 15 received on a channel number greater than 13.
B.List the professional organizations or associations that the televisian staff and or the station are mambers of: Please check: Individual Station
$\qquad$
PART II - ASSESSMENT GF: QRGANI ZATI ON, BUDGEF, PERSONVNEL, AND EQUIPMENT

ORGANIZATIOIN SUDGET, PERSONNEL, AND EQUIPMENT
Section (A) - Description of the organization.

1. What is the mission of the station. Please indicate an estimated percentage given the below list of probable station missions; space has been permitted should additioral missicns need to be added.
\% Instruction of students in sable technology
__ Delivery of educational programming in support of institutional offerings
\% Marketing or public relations for the institution
\% Delivery of pinoramming in support of community affairs
$\%$ Other: $\qquad$
\% Other: $\qquad$
$100 \%$ Total
2.ilease check any of the below areas which describe the type of instructional programing vou may air, ___offering of telecourses
____development of supplemental student materials with your programming offering of tutorial or remedial programming
$\qquad$ capacity for live coverage, such as quest speakers or special events enrichment programming, such as cultural events
other: $\qquad$ other:
3.Below is a list of problem areas in instructional programing. Circle your feelings as to the significance of these problems given your station. Add any comments for clarification of your responses
(optional-spesify).
$0=$ no problem
$5=1$ serious problem
012345 lack of or no faculty support specify:
012345 lack of or ne administrative support specify:
012345 lack of or no community support specify:
012345 inability to do cable instructional programming due to unions specify:
012345 inaderuate funding fer production of instructional programming spectify:
0123450ther:
specify:
012345 Other:
specify:
012345 0ther:
specify:
2. Which best describes the the reporting relationship of the station (please check one).

The station is dependent upon an academic unit of the institution.
_-_The station is attached to an academic unit but zlso has a wider
institutional mission than classroom use alone.
$\qquad$ The station is an administrative unit of the institution. Other:
5.00 you perceive a reporting relationship problem? Given the items telaw or by listing others you may perceive, circle your feeling as to the significance of these problems glven your particular station. add any comments for clarification of your responses (optional-specify).
$0=$ no problem
$5=a$ ser $100 \mathrm{~s}_{\mathrm{p}}^{\mathrm{p}} \mathrm{pmblem}$
012345 Is it clear who assigns tasks?
specify:
012345 Does the source of funding conflict with day to day workload?
specify:
012345 Is the chain of command clear?
sptcify:
0123450ther: $\qquad$
specify:
012:450ther:
specify:
012345 0ther:
spec:fy:
6. Below 15 a list of relitiriship areas with the cable company. Cirsie your feeling as to the significance of these problems given your particular station. Add any comments for clarificalion of your responses (optional-specify).
$0=$ no prcblem
$5=a$ sericus problem
012345 quality control of programming:
specify:
012345 upgrading of equipment
specify:
012345 censoring of progranming specify:
0 i 2345 specification on amount of programa'ilg hours specify:
012345 specification on times of scheduling specify:
012345 other: $\qquad$ specify:
012345 other: $\qquad$ specify:
7.There are several issues regarding public access. By public access we mean the public ability or right to use the cable system to transmit programing (usually for a fee). Do you prov:de public access. $\qquad$ Yes $\qquad$ No
8. Below 15 a list of probiem areas that deal with public access. Circle your feeling as to the e'gn:ficance of these problems given your particular station. Add any comments for clarification af your responses (optional-specify).

$$
0=\text { no problem }
$$

$5=a$ serious problem
012345 contlict ot interest between the institution and cable company
spezify:
012345 unprepared clients or users
specify:
012345 overuse of tacilities
soecify:
012345 other:
specify:
012345 other:
specify:
Section ( $B$ ) - Discussion of the critical issues of the organization.

## Respondent Generated:

From the above jescription items on orgaiilat:on and the issues generated by the inuestigator, what other issues do you feel are significant given organizational considerations (optional).

ORGANIZATION, BUDGET, PERSONNEL, AND EQUIPMENT
Section (A) - Description of the budget.

1. What is the station's estimated total operating budget in a given fiscal year (12 months): \$
2.Given this total budget, indicate the percentage from each of the categories below, the source of these funds.

## \% Coneral College/University operating funds

\% Gerieral acadeninc department operating funds
\% Special student fees
\% Outside user fees including grants and or contracts
\% Endownent or alumni contributions $\%$ Othor: $\qquad$ \% Other: $\qquad$
$100 \%$ Tatal
s.Given the list below, circle vour o nion on those budgetary problems which are representative of your particuiar st•ion. Add slarification statements if needed (optional-specify).
$0=$ no problem
$5=\mathrm{a}$ serious jroblem
012345 lack if a commitment by the admınistration specify:
012345 University has insufficient funds spectify:
012345 station lacks a fair share of existing funds due to budgeting policies specify:
012345 budget operations are dependent upon soft monies (grant \& contract) spectify:
012345 other: $\qquad$ specify:
012345 other: $\qquad$ specify:
012345 other: spec.fy:
4. Does the lable company have any financial commitments to the cabl station? $\qquad$ Yes. $\qquad$ No
If yes, check any appropriate commitments-
$\qquad$ staffing
$\qquad$ technical support
____equipment replacement
$\qquad$ other: $\qquad$ other: $\qquad$
Do any of the above comitments cause difficulties? Please explann-


Section (B) - Discussion of the critical issues of budgeting.
Respondent Generated:
From the abrce description items on budgeting and the issues generated by the investigator, what other issues do you feel are significant to consider under budget (optional).

$$
\text { Profile - Page } 5 \text { of } 7
$$

Section ( $A$ ) - Description of personnel.

1. Could you please identify the number of FTE (Full-time equivalent; $1.0=0$ ene person working full-time for one year) which directly report to you for the following categories:

FTE professional staff
___FTE graduate students
___FTE undergraduate students
____FTE technical support staff
____FE other: $\qquad$
___FE other: $\qquad$ Could you please identify the personnel you have access to but reports to another administrative or academic unit.

FTE other: $\qquad$

FTE cther: $\qquad$
$\qquad$ FTE other:
2.From the below list please identify the amount of input the following personnel have in lung-range planning. C=percelved as a person having no input

5 =a oreat deal of input
012345 adulsory board
012345 department chasr or administrative head
012345 station manager
012345 university or college officials
012345 cable company
012345 other: $\qquad$
012345 other: $\qquad$
3. Belaw is a potential list of personnel problems ycu may be experiencing. Circle your opinion on those personnel problems winch are representative of your particular station. Add clarification statements if needed (optional-specify).
$0=$ no problem
$5=\mathrm{a}$ serious problem
012345 inactive advisory brard
specify:

012345 inadequate technica: support
specify:
012345 directors time not totally devoted to sation operations
specify:
012345 heavy reliani.: on students for tallye ons
specify:

1) 12345 inadequate professional staffing
specify:
012345 inadequate ongerng profess'،ulat staff derelopment
spec.ify:
012345 other: $\qquad$
012345 other:
specify:
Sectior (B) - Discussion of the critical issues of personnel.
Respondent Generated:
From the above description items on personnel and the is5ues generated by the investigator, what other issues do you feel are significant to consider under personnel (optional).

Section (A) - Description of equipment.
1.Below are simple yes/no statements to quantify and qualify your facilities. Check off the appropriate response.
$\qquad$ Yes $\qquad$ No -Does the station have a production studio?
Yes No -Does the station have color capability?
Yes___ No -Does the station have remote equipmen??
Yes No -Does the station have editing capability?
2. Please fill-i. or check the appropriate blanks in helping us to define your equipment.

UCR5: Quantity $\qquad$ Formats $\qquad$ Audio console: Yes $\qquad$ No

Film chain carablities: 16 mmm $\qquad$ 8mm $\qquad$ 35 mm 51 lde 5 $\qquad$
Character generator: Pages of memory $\qquad$ Cameras: Number of studio__ Number of remote $\qquad$
Time base corrector: Yes__No $\qquad$
Video switchirg capabilities: Yes $\qquad$ No $\qquad$
3.Given the mission of your station, identify the equipment problems that your station may have. Add clapification statements if needed (optional-specify).
$0=$ no nrablem
5=a serious projlem
012345 important equipment components are missing srom a desired system specify:
$012^{7} 45$ quality of equipment is not at desirable level specify:
C 12345 more of existing equipment (quantity) 15 desirable specify:
012345 equipment is outdated
specify:
012345 inadequate physical plant and facilities
specify:
012345 inadequate maintenance of equipment
specify:
012345 other: $\qquad$
012345 other:
specify:
Section ( $B$ ) - Discussion of the critical issues of equipment.
Kespondent Generated:
From the above description items on equipment and the issues generated ty the investigator, what other iscues do you feel are significant to consider under equipment (optional).


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