I am glad you all came tonight so I can reminisce about things that occurred in the past. I am going to mostly talk about the past, about some individuals who are no longer with us and a little about those still with us.

This talk may be a little like visiting an old aunt who pulls out a box of old photos and makes you watch them in almost random order. It will also deal with some topics directly related to health physics and other topics only related to the time period around the 1960s.

So in order to make sure you all stay awake, I think we need to do a little exercise before we start. Will everyone stand.

Now if you were not alive in 1960 (that is not yet born in 1960) please sit down. For 1960 is a key date for it is the date of our Chapter’s birth. The rest of you must remain standing.

For those of you who were not yet 10 years old in 1960, please sit down for you were too young to remember 1960.

Now lets have a big hand for those still standing for these upstanding individuals include many of the charter members or early members of the Chapter.

These are the individuals who can recall things like a 10¢ cup of coffee.

Now everyone gets to sit down --- except me.
Why was I was asked to talk tonight?

Someone noted that the ETCHPS was formed in 1960 thus the chapter is now fifty years old.

Then someone noticed the list of petitioners and saw my name as one of the 33 petitioners.

The Program Chairman sent an email to me. It reached me while I was in Costa Rica.

"Would you talk about the birth of the Chapter? I responded, "YES" and then I had second thoughts.

ETCHPS Program Chairman, Tom Rucker, sent an email to me. I received it while visiting my daughter who lives in Costa Rican. A Peace Corp volunteer in 1980, she married a Costa Rican over 30 years ago. So, surrounded by tropical trees, it was very easy to say "Yes" to the request.

At that time I assumed that when I returned to Tennessee, I would find the ETCHPS early records and I would have lots of information for the talk.

I asked my Costa Rican grandson what I should say. He said "Just say that a bunch of men got together and started the Chapter.

I asked my granddaughter and she said. "Will you embellish the story a little to make it interesting? I said "Of course!"

But then I started to worry a little.
Since I was just hanging around in Costa Rica, I started to think about what I might say.

Then I realized that in my old age, I could not remember much.

So I hired a nearby consultant.
Roger uses a consultant

Like most consultants he made a lot of noise. His name was Juan, that is John in English.

I asked him what his advice would cost me. He said two dozen bananas; but because of your age, I will do it for a dozen bananas.” Note that like most Health Physicists he prefers to uses the English system of units.

After I told him my assignment, he said it doesn’t matter what you say. Most of the H.Ps at the meeting will be too young to contradict you and those who are old enough to remember will only say – Roger has gone bonkers.

I said, “Is that all the advice I get.” He said, “Just keep looking around and ideas will appear.”

So, I did.
And when I looked around in Costa Rica, I saw ETCHPS memories

I soon spotted a ETCHPS T-shirt on my son-in-law that announced the 40th anniversary of the chapter.

You need to know that when I go to Costa Rica, I take old clothes to wear around my daughter’s farm. When I leave for the States, I leave most of my clothes behind where they continue to be used. Used clothing in Costa Rica are called Ropa Americana.

For those of you who want to know details, the two men are working near the back end of the horse, a stallion, that in a few months will undergo some sort of a sex change operation.

After several weeks, I returned to the States and was able to find some more ETCHPS memorabilia.
The 1960 Petition to HPS

BIRTH OF THE EAST TENNESSEE CHAPTER OF THE HEALTH PHYSICS SOCIETY
By Clayton Holoway, ORNL, 1973


"The undersigned, do hereby petition the Board of Directors of the Health Physics Society for a Charter to establish a local chapter of the Society in the East Tennessee geographical area. The Chapter shall by meeting, educational and social, try to increase the awareness between persons interested or engaged in radiation safety and to further the objectives of the parent Society. Members in the Chapter shall be open to all members and associate members of the Society in the East Tennessee area and to all others who wish to affiliate themselves with the local Chapter. A Nominating Committee has been established to provide any and all information that may be required by the Board of Directors prior to the election of officers and the formation of committees by the Chapter. By-Laws of the Chapter shall conform with Article XII of the Health Physics Society Constitution."

The Petitioners were:

Roger J. Coutier
Joseph A. Kemmer
Jack T. Burcham
Paul A. Catron
John H. Knight
Kerry Perry
Arthur Welsh
William J. Elise
Neil B. Scholtz
Derron S. Hill
A. F. Sanders
G. A. Patterson, Jr.
R. S. Rhoads
Paul C. Hester
J. M. Macklin
G. E. Roberts
H. Sanders
C. H. Hast
Guyon N. Edwards
Edwin O. Spofford
J. C. Hart
J. E. Anderson

Thomas J. Hartsuff
Harley E. Byford
S. J. Dunn
F. V. Bahneman
G. J. Davis
L. B. Higgin
R. H. Whitehead
J. A. Mollie
C. E. Hughes
C. F. Simons
L. Z. Morgan

In 1960, the Oak Ridge reservation consisted of only Oak Ridge National Laboratory, Y-12, K-25 or Gaseous Diffusion Plant and ORINS. There were essentially no private contractors like there are today.

ORNL Annual Information meeting and seminars. Not much going on at other locations.

Thirteen years after the chapter’s formation, Clayton Holoway wrote history in 1973. I know that Clayton was a member of the Chapter in 1963 but I can’t remember who he was but I am told that Clayton was a quiet man and always well dressed. He wasn’t very active in the Chapter, but I sure thank him for writing this history thirteen years after the birth of the chapter. I could never find the records of the chapter’s early years.


I wish that I could take time to mention something about each of these individuals.

About 80 Charter members of Chapter – 50% from ORNL, 20% from Y-12, 6% from K-25, 2% from ORINS/ORAU and about 20% that I can not identify as to location.
1960 Petition to form East Tennessee HPS Chapter

In January 1960, thirty-three petition the HPS for a Chapter Charter.

<table>
<thead>
<tr>
<th>Roger Cloutier</th>
<th>G. R. Patterson</th>
<th>Thomas Burnett</th>
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<tbody>
<tr>
<td>Joe Lenhard</td>
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<td>Walter Snyder</td>
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<td>Art Schoen</td>
<td>C. M. “Hap” West</td>
<td>Rufus Ritchie</td>
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<td>Bill Ellis</td>
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<td>Gorman Hill</td>
<td>Jim Hart</td>
<td>Gil Stone</td>
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<td>Al Becher</td>
<td>Elda E. Anderson</td>
<td>K. Z. Morgan</td>
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For this slide I took the liberty of using the name the person was most often called. For Example: C. M. West was called “Hap” by everyone. Others names were also shortened – Dr. K. Z. Morgan was usually referred to as “KZ” and Elda E. Anderson was simply “Elda E.” I was given a nickname from my southern friends ----- I was “Damn Yankee”. I know Damn Yankee is two words but when I arrived in 1959 it was said as one word.

Technically speaking the ETCHPS was formally established on October 26, 1960. The meeting was probably held at the new Holiday Inn and the speaker was ??? J. S. Laughlin, HPS President Elect.

Does anyone know where the original charter and banner are located?
<table>
<thead>
<tr>
<th>First</th>
<th>Last</th>
<th>Work Group</th>
<th>First</th>
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Let's go back 50 years to the birth of the ETCHPS in 1960

|------|------|------|------|------|------|------|

Use hypnosis with watch – 2010, 2009, 2008, etc
OP’S! WE WENT BACK TOO FAR AND REACHED 1940

In 1939, Germany starts World War II in Europe. On December 7, 1941 Japan attacks Pearl Harbor in Hawaii and U. S. immediately declares war with Japan and its German ally.

In 1942, the U. S. Army establishes the Manhattan Engineering District. In December 1942 CP-1 goes critical

In September 1942, General Groves visits East TN and from a location near Elza Gate, he selects the Black Oak Ridge area as one of the Manhattan Project sites. Four facilities would be built: X-10, Y-12,K-25 and S-50.

You can read faster than I can talk so I will let you read the slide as I talk about some details.

Oak Ridge area selected Sept. 23, 1942 for enrichment of U. Construction in Oak Ridge begins on Feb. 18 1943

Los Alamos area selected Nov. 25, 1942 for bomb design. Los Alamos construction begins Apr. 1943.

Hanford area selected Jan. 16, 1943 for Pu production. Construction at Hanford begins Aug. 27, 1943

On Dec. 2, 1942, the first controlled chain reaction occurred at CP-1 in Chicago. Talk about Enrico Fermi’s use of 4 inch slide rule. Roger’s slide rule – cost.

One of the first home computers was the Commodore 64. It wasn’t introduced until January 1982 (40 years after the first controlled nuclear reaction at CP-1) The Commodore 64 had 64 kilobytes of memory.

In time small expensive hand held calculators. So expensive that cradles were purchased to prevent people from taking the calculators – stealing them.
What happened next?

- June 6, 1944 - U.S. and its allies make D-Day Landing in France.
- May 7, 1945 - Germany surrenders.
- War with Japan continues.
- August 6 & 9, 1945 - atomic bombs dropped on Hiroshima and Nagasaki. War with Japan ends!
- 1946 - Oak Ridge workers are uncertain of their future. Many workers leave the area.
- X-10 area, called Clinton Laboratories, was renamed Clinton Laboratory in 1947 and Oak Ridge National Laboratory in 1948. Y-12 kept its Y-12 designation and K-25 becomes the Gaseous Diffusion Plant.

1946, The status of Oak Ridge in post WWII was in question. Population declined because of the cessation of construction and lack of new projects. Rumors said that reactors design would shift to Argonne National Laboratory where the critical piles were moved in 1943.
The Health Physicists
Who came to Oak Ridge from Chicago in 1943

Jim Hart, Ernie Wollan, K.Z. Morgan, Herb Parker, C. Gamertsfelder, Bob Coveyou

Six health physicist come to Oak Ridge from Chicago in the spring of 1943.

This picture obviously wasn’t taken in the 1940s. It was taken at KZ’s retirement at the OR Country Club in April 1972. KZ was 36 when he came to Oak Ridge and 65 when he left to join the Georgia Tech staff.

I wish that I had time to tell you about each of these men but time will restrict me to just a few comments about each man.

Jim Hart, a Dupont Chemical Co. chemist was 26 when he came to Oak Ridge from Chicago and 57 when he died in 1984. We could spend a whole night, a whole day and maybe a whole week telling stories about Jim Hart.

Ernie Wollen – Oldest of the 1943 group at 41. He is credited with development of the film badge—MDDC-1065. see next picture

K. Z. Morgan

Parker in 1934 worked with James R. K. Paterson at the Manchester Hospital in England to develop the Paterson-Parker system of dosimetry for implants in 1934 when he was 24. He left Oak Ridge for Hanford Washington and ultimately became its director.

Carl Gamertsfelder - physics, went to Hanford with Parker

Bob Coveyou – returned to college after the war to finish his undergraduate degree. He then returned to ORNL and received a M.S. at UT. He became a research mathematician at several ORNL divisions. He became an expert in pseudo-random number generation. If you Google Robert Coveyou you will find a
Wollan part of the Chicago health physics team routinely used an electroscope to measure the gamma radiation levels around the Fermi Chicago pile. It is not clear if he was present when it went critical on December 2, 1942. He came to Oak Ridge in 1943 with KZ and the other health physicists from Chicago. Ernest Wollan soon began studying neutron diffraction at the Oak Ridge Graphite Reactor.

In 1994, Shull receives the Nobel Prize in Physics for his work with neutron diffraction analysis. Wollan did not co-share the prize for he had died in 1984 and only living individuals receive the prize.
 Clinton Laboratories
    1946 Health Physics Division

Note Jim Hart, Woody Cottrell, Tom Burnette, K. Z. Morgan, Hume Craft, etc.
Santa is W. H. Ray
KZ Morgan can barely be seen in the back.
Why no pictures of Y-12 and K-25 pictures of health physics staff.
Health physicists outnumbered industrial hygienist by 50 to 1 at ORNL.
At K-25 industrial hygienist outnumbered health physicists.
K. Z. Morgan was often described by as a quiet southern gentleman from North Carolina.

However, he often took on the U.S. Government. This protest occurred over everything being classified as SECRET in 1946.
This is a picture of G. William Morgan at Graphite Reactor. He is using a cutie pie survey instrument. This is most likely a posed picture related to ORNL's first shipment of C-14 to a hospital in Saint Louis, MO in August 1946. Note protective clothing.

Morgan was a HP surveyor in 1946. He left ORNL and joined AEC and later he was instrumental in the development of 10CFR20.

He then left AEC and started buying properties in Hawaii.

When he died in 1984, he bequeathed a substantial amount of money to the HPS for the G. William Morgan lecture(s) that are held every year at the annual HPS meeting, since 1989.
Oak Ridge City Gates Open on March 19, 1949

Oak Ridge, the city, was a closed community until 1959 when the city gates were opened with a great deal of fanfare.

Magnesium tape used as ribbon that when ignited produced a miniature mushroom cloud.

Many camera’s with flash bulbs were at the ready for a picture. If you look carefully you will find some women among the many men.
Now we jump ahead in time almost 10 years.

On Monday, June 16, 1958 — “Radiation alarms in part of the Y-12 plant area sounded shortly after 2 PM today. AEC makes brief announcement shortly after 3 PM. There has been NO, I repeat NO reports of any injury to personnel. Note headline about “Two Boys Drown in Norris Lake.

On Tuesday, June 17th the headline read “Five Y-12’ers are at ORINS hospital for Observation. A critical mass was achieved – “criticality accident.

Wednesday, June 18, 1958 – Still Observing Y-12 Victims.

Thursday, June 19, 1958 – Y-12 Exposures Among Highest Ever in U.S.
I want to say something about things that occurred in the community in the late 1950s.

In 1954 the Supreme Court ruled in the Brown v. Board of Education of Topeka lawsuit that separate but equal was not constitutional.

1956 Clinton High School admitted Negros (Blacks) into the High School. Agitators from outside Clinton come to Clinton to protest desegregation.

The Captain of the football team and several team members work to maintain “normal” conditions in the High School.

However by 1958, the outside agitators have rile up the community and on October 5, 1958 about 150 sticks of dynamite are used to blow up the high school. Note that this is only about 3 months after the Y-12 criticality accident.

This memorial depicts the twelve students who had to walk though the crowds of agitators to reach school before the bombing occurred. It stands in front of the Green McAdoo Cultural Center in Clinton.

If you haven’t visited the Center, you should for it provides lots of information about things that were happening in East Tennessee during this important period of time. I placed a few brochures on the table.

I think you will be surprised by what was happening about the time the ETCHPS was being established.

Incidentally, Oak Ridge made an abandoned elementary school available to the Clinton and high school students resumed their classes in Oak Ridge for several years.
The 1954 Supreme Court ruling about desegregation was extended to colleges in 1956.

The first African-American undergraduate was admitted to UT in 1961.

The first African-American to be on the UT football team was Lester McClain in 1968.

At half-time during a football game, Rocky Top wasn’t played. It had nothing to do with desegregation for Rocky Top wasn’t written until 1967. It only became part of the UT in 1972.
Why a Local Chapter?

Chapter organizers met on May 18, 1960 and Tom Burnett outlined several benefits for having a chapter.

- Improve the interactions among the health physicist in the Oak Ridge area.
- Allow the exchange of views on radiation control practices.
- Debate differences between technical and theoretical control measures.
- Improve the opportunities for professional development.
- [Have fun.]

Well let’s get back to health physics.

The Health Physics Society was organized in 1955 in Columbus, Ohio and its first formal annual meeting was held at Ann Arbor, Michigan the following year in 1956.

KZ Morgan was elected the first president of the Health Physics Society.

The Society soon allowed Chapters to be formed. All HPS members would automatically be members of a chapter if they paid their dues. One chapter goal was to allow individuals who didn’t qualify for Plenary membership in the HPS to be members of a Chapter.

The rules for Plenary membership in the HPS were quite strict.

Why Oak Ridge area was slow organizing a chapter.

One reason was that the ORNL Health Physics Division held lots of seminars and annually held an information meeting that many prominent individuals attended: Robley D. Evans, foreign individuals. ORNL top HP staff were already busy with the national HPS and the formation of IRPA. However, the other plants in Oak Ridge were not that involved and they needed a local HP chapter.

In the summer of 1959, Elda E. Anderson became President of the HPS.

It was at this time that the Oak Ridge petitioners gathered together. Several other Chapters had been established in the U.S. before the Oak Ridge Chapter was
The Early Officers of ETCHPS

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<th>Year</th>
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<td>1965</td>
<td>Gil Stone</td>
<td>TVA</td>
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<tr>
<td>1966</td>
<td>Neil Schultz</td>
<td>K-25</td>
</tr>
<tr>
<td>1967</td>
<td>Jim Hart</td>
<td>ORNL</td>
</tr>
<tr>
<td>1968</td>
<td>Merwin Sanders</td>
<td>Y-12</td>
</tr>
<tr>
<td>1969</td>
<td>Fred Haywood</td>
<td>ORNL</td>
</tr>
<tr>
<td>1970</td>
<td>D. J. Nelson</td>
<td>ORNL</td>
</tr>
</tbody>
</table>

Focus on Location.

Mention some of the officers.

In 1986, Carol Berger became the first woman to become president of the ETCHPS.

The 1970 President was Daniel J. Nelson. He died in XXX. When the ORNL Environmental Science Building was constructed in XXXX, the auditorium was named after him.
April 3, 1960

Mr. R. J. Cloutier  
Radiation Safety Officer  
Oak Ridge Institute of Nuclear Studies  
P.O. Box 117  
Oak Ridge, Tennessee

Dear Mr. Cloutier:

Thank you for your petition concerning the establishment of a chapter in the Health Physics Society in the East Tennessee area. By copy of this letter copies of your petition are being forwarded to the Board members to facilitate review prior to the meeting.

Although I feel somewhat like carrying coals to Newcastle, I've enclosed a form for a chapter charter recommended for use by the Board of Directors, and also a copy of bylaw amendments. Perhaps you could have copies of your charter and bylaws ready for approval in the June meeting.

Finally, my congratulations on your chapter formation.

Sincerely,

R. C. Thorburn, Chairman  
Standing Committee on Local Chapters

RCT:pa

Enclosures

CCS: EE Anderson /  
    GV Beard  
    FP Cowan  
    CC Gamertsfelder  
    SJ Harris  
    WH Langham  
    JS Laughlin  
    KZ Morgan  
    WE Nolan  
    LS Taylor
PETITION

WE, THE UNDERSTOOD, DO HEREBY PETITION THE BOARD OF DIRECTORS OF THE HEALTH PHYSICS SOCIETY FOR A CHARTER TO ESTABLISH A LOCAL CHAPTER OF THE SOCIETY IN THE EAST TENNESSEE GEOGRAPHICAL AREA.

THE CHAPTER SHALL BY MEETINGS, EDUCATIONAL AND SOCIAL, TRY TO INCREASE THE COMMON BONDSHIP BETWEEN PERSONS INTERESTED OR ENGAGED IN RADIATION SAFETY AND TO FURTHER THE OBJECTIVES OF THE PARENT SOCIETY.

MEMBERSHIP IN THE CHAPTER SHALL BE OPEN TO ALL MEMBERS AND ASSOCIATE MEMBERS OF THE SOCIETY IN THE EAST TENNESSEE AREA AND TO ALL OTHER PERSONS WHO WISH TO AFFILIATE THEMSELVES WITH THE LOCAL CHAPTER.

A FORMING COMMITTEE HAS BEEN ESTABLISHED TO PROVIDE ANY AND ALL INFORMATION THAT MAY BE REQUIRED BY THE BOARD OF DIRECTORS PRIOR TO THE ELECTION OF OFFICERS AND THE FORMATION OF COMMITTEES BY THE CHAPTER.

BY LAWS OF THE CHAPTER SHALL CONFORM WITH ARTICLE XII OF THE HEALTH PHYSICS SOCIETY CONSTITUTION.

PETITIONERS

JANUARY 1960

Roger J. Cloutier
Jack J. Sutherland
Charles R. Gieger
William W. Young
C. Thomas Sisson
William R. Ellis
Fred C. Schuff
Edward A. Kline
B. A. Hume
L. F. McRae
S. A. Singsby
E. B. Jr.
G. J. Seaman
Joe L. Alom
N. D. Carter
J. R. Knight
J. D. Tipton
C. M. West
M. A. Edson
A. S. Bicke
L. L. Lee
R. J. Devereaux
J. T. Alton
BIRTH OF THE EAST TENNESSEE CHAPTER OF THE HEALTH PHYSICS SOCIETY

By Clayton Holoway, ORNL, 1973

A petition dated January 1960 constitutes an historical document of the East Tennessee Chapter:

"We, the undersigned, do hereby petition the Board of Directors of the Health Physics Society for a Charter to establish a local chapter of the Society in the East Tennessee geographical area.

The Chapter shall by meetings, educational and social, try to increase the common bondship between persons interested or engaged in Radiation Safety and to further the objectives of the parent Society.

Membership in the Chapter shall be open to all members and associate Members of the Society in the East Tennessee area and to all other persons who wish to affiliate themselves with the local Chapter.

A Forming Committee has been established to provide any and all information that may be required by the Board of Directors prior to the election of officers and the formation of committees by the Chapter.

By-Laws of the Chapter shall conform with Article XII of the Health Physics Society Constitution."

The Petitioners were:

Roger J. Cloutier  G. R. Patterson, Jr.  Thomas J. Burnett
Joseph A. Lenhard  B. F. Rutherford  Walter S. Snyder
Jack T. Sutherland  Paul C. McRee  E. J. Kuna
Paul R. Guinn  Jack D. McLendon  F. W. Reinhardt
John R. Knight  E. Roberts  P. W. Reinhardt
W. Peery  M. Sanders  E. B. Wagner
Arthur Schoen  C. M. West  R. H. Ritchie
William P. Ellis  Moyer B. Edwards  J. A. Auxier
Neil B. Schultz  Edwin D. Gupton  C. E. Haynes
Gorman S. Hill  J. C. Hart  G. F. Stone
A. F. Becher  E. E. Anderson  K. Z. Morgan

This petition above was sent to Robert C. Thorburn, Chairman, Standing Committee on Local Chapters (c/o General Electric Company, San Jose, California) with a 29 March 1960 cover letter\textsuperscript{1} from R. J. Cloutier, Radiation Officer, which indicated that to handle the details of establishment of a Chapter, a forming committee had been appointed, consisting of Roger J. Cloutier, Chairman, Joseph A. Lenhard, T.H.J. Burnett, G. R. Patterson, Jr., and A. F. Becher, with request that all correspondence relating to the formation of this Chapter be directed to the Chairman. Thorburn, in his 8 April 1960 reply, enclosed a form for a Chapter Charter as recommended for use by the Board of Directors, with the comment that he felt somewhat like "carrying coals to Newcastle."

An organizational meeting was called for 18 May 1960 at the ORINS (now ORAU) Special Training Building, Room 18, by the forming committee, signed by R. J. Cloutier (Chairman), J. A. Lenhard, T.H.J. Burnett, G. R. Patterson, Jr., and A. F. Becher, then representing ORINS, ORO, ORNL, Y-12 and K-25.
Those present on 18 May 1960, signing the attendance sheet were:
T. H. J. Burnett, R. J. Cloutier, G. R. Patterson, Jr., A. F. Becher,
J. A. Lenhard, C. M. West, M. Sanders, M. B. Edwards, Edmond Roberts, Jr.,
H. H. Abele, Adrian H. Dahl, Charles H. Miller, Fred F. Haywood, R. H.
Boyett, Jack W. Youngblood, Newell D. Barker, Neil B. Schultz, William P.
Ellis, Loy H. Sipe, B. F. Shinn, Dallas Yeager, James S. Brown, Jr.,
B. F. Rutherford, Art Schoen, Paul C. McRae, Paul R. Quinn, W. E. Muldrew,

Roger Cloutier presided as Chairman for this 18 May organizational meeting.
Tom Burnett presented some views on Why a Local Chapter? -- pointing to
the benefits to be derived from becoming better acquainted with others in
the field, exchanging views on radiation control practices, debating the
differences that may exist in some of the technical or philosophical aspects
of health physics controls, and the opportunities for development of the
profession which can evolve from the interactions among groups who may
have varying specialized interests.

Elected on 16 July 1960 were President Patterson, President-Elect Auxier,
Secretary Burnett, and Treasurer Sutherland.

The first Nominating Committee, appointed 6 October 1960 by the Executive
Council of the Chapter, consisted of J. A. Lenhard, N. B. Schultz, J. D.
McLendon, A. H. Dahl, and G. F. Stone, by notification from Chapter Presi-
dent G. R. Patterson, Jr., in his letter dated 13 October 1960.

Thus, by the Record, was born in 1960 the East Tennessee Chapter of the
Health Physics Society.

What is the task charged to the Chapter, its parent Society, and the
International Radiation Protection Association, of which latter the Society
is an Associate Member? This may need updating, but in 1958 "Health
Physics" was defined by Claus² as the task of working toward the provision
for and implementation of protection to all living things against the
potential hazards of radiation, while at the same time making it possible
for the human race to enjoy all the benefits which may arise from the use
of atomic energy.

References:

1. Original documents in above paragraphs on file with the
Chapter Secretary.

Physics, Vol. 1, Pages 56-61.