The O B S E R V E R

Vol. 3, No. 12 October 30, 1964 FRED ... SEEMS WERE PICKIN' UP INTERFERENCE FROM SOMEWHERE NRAO INTERNATIONAL AIRPORT WELCOME TRUSTEES ! Peter B Good

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WELCOME TRUSTEES

by Peter Good

October 15, 1964, marked the annual AUI's Trustees and Officers meeting at the NRAO. The Trustees and Officers who attended the two day meeting were:

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Admin. V.P., Harvard Univ.

Dep. Director, BNL

They came to Green Bank by every available modern day means. Mr Plunkett housed the trustees, officers, and their wives in the El Poca Motel, the Residence Hall, the Redwood House, the Hill House and in the Hardy House.

On the first day's agenda, reports about AUI's general activities were given by the President, the Treasurer, and the Controller of AUI. Dr. Heeschen, Director of the NRAO, and Dr. Goldhaber, Director of Brookhaven, reported on personnel changes, budget status, new facilities and new construction.

That evening, an informal get-together was topped by a juicy filet mignon steak dinner.

On the second day's agenda, reports by the visiting committees were given. Mr. Theodore Paul Wright was appointed as the new President of AUI.

The entire operation of transportation, housing and entertainment was efficiently and smoothly handled by Mr. Callender and Mr. Plunkett.

EDITORIAL by Peter Good

On November 2nd, at 7:30 pm, the NRAORA will present the first foreign-language film at the Monday Night Movies. There have been many requests for top-rated foreign films and there will be more only if the attendance for this presentation indicates a strong interest in foreign movies. Because the film is in Spanish with English sub-titles, I do not recommend this movie for children. "Macario" is the story of a poor Mexican peasant who revolts against his constant hunger and vows never to eat again until he has a whole turkey to himself. This 1961 release has won the grand prize at the San Francisco Film Festival and was nominated for an American Academy Award. Staying away on November 2nd will mean no more foreign films. Attending "Marcario" will mean the showing of other great foreign films; such as, "Der Brucke", "Seven Samurai", "Rasho-mon", "Pather Panchali", "Olympia", "The 400 Blows", "La Strada", "Hiroshima, Mon Amour" and "The Lavender Hill Mob".

85' TELESCOPE

The interferometer system (85-I and 85-II) was in working operation on October 4. The data was taken at the trailer. New delayed tracking system is working very well which allows scientists extended tracking on all sources.

Ground loops have been a major problem with the interferometer system and hopefully are now all corrected.

The 11 centimeter front ends of both the 85-I and 85-II have been removed. The 6 centimeter front ends have been installed in their place. Drs. Hoglund and Mezger are using the 6 centimeter in their projects.

Dr. Hoglund had been using the "old faithful" 20 channel Hydrogen line receiver in a search for a new ionized hydrogen sprectral line in the regions in the Omega and Orion nebulaes.

85-II was moved from station one to station two successfully. All personnel involved were commended by Dr. Heeschen.

On October 14 painters completed the painting of the dish's surface of 85-II.

On October 16 Dr. Hoglund and Dr. Mezger's program was discontinued.

On October 15 11 centimeter front ends were installed for Dr. Hogg's program.

140' TELESCOPE

Well, now that the World Series is over I suppose everything will be back to normal in a short time. All that belly-aching about "never winning a pool" - ha! Looks as though those who yell the loudest about never winning are the ones who eventually win. Well, someone has to win. We pay our money and take our chances.

Now that Yogi has been released as manager of the Yankees I guess he can go back to making Kellogg cartoons for television.

Mr. Greenwood and Mr. Devlin have returned from their trip to the University of Pennsylvania Hospital in Philadelphia where, as one of them states it, "I got my battery charged and the other fellow got filled up with gas". Actually, both were there for complete physical examinations. We have had an alarming report from a friend who lives near there. He visited them while they were patients and he states that they "were in a country club, drinking booze and chasing women". Could be our friend exaggerates just a little. Neither of them will comment – evasive as a couple of experienced politicians.

Poem for whoever it may concern:

Thee bringeth thy big lungs in play, When they big boss is far away, We wonder why thee doth not shout, When they big boss is near about.

Polar gear setting has been completed and work is progressing toward the expected lift of the superstructure on or near the 28th of October. This is the last major lift for the 140' and it will be a welcome sight to many people who have for so long been associated with this job.

It will be some time after the superstructure has been bolted to the yoke arms before the derricks are taken down and the telescope moved up from the hard east position to the zenith position.

It is planned to start placing panels on the superstructure while it is in the hard east position.

140-ft. TELESCOPE

After many trials and tribulations the auto-correlation receiver seems to be on the air - I THINK.

Art Shalloway and John Parker are to be commended for their gallant efforts in keeping the machine alive.

The 11 cm receiver is working in conjunction with the autocorrelator. When the correlator isn't working, we have an alternate program 11 cm for Jaap Baars.

We have recently wired the radio into our intercom system - now on those cold nights at the focal point we'll have hot music anyhow.

"Now Bob about the TV I was telling you about".

We wish to welcome LeRoy Webb into the and bid Ray Walker a fond farewell. Ray has recently been transferred to the 85-ft.

A new loading dock has recently been added to the front of the building to facilitate loading and unloading. A much needed improvement.

Dick Spurlock has left the Observatory. Dick will very much be missed by all.

MACHINE SHOP

Martin Barkley killed a 16-1/2 lb. turkey gobbler with a 10-1/2 inch beard on the Allegheny Mountain near Boyer on the first day of hunting season.

Marvin Wimer just returned from a successful deer-hunting safari in Pennsylvania. He caught 4.

Sipe and Ed Gardener are presently completing a scale model of the 140-ft. apex.

AMATEUR TALENT SHOW

Friday, November 13

7:30 PM

Durbin Theatre

\$.50 Adults

\$.25 childre

By Durbin Lions Club

See the 4 Lion "Beatles" and other Talent

Persons interested in participating, contact:

Dick Brockway Sidney Smith Marvin Schuhman 456-4572 456-4114 456-4268

"CASH AWARD PRIZES"

NOTICE TO MADGE WHITE

Remember - When you wash dishes first you put the dishes in the dish washer, then you push the button which starts the washer. Got that Madge?

IT'S THE WORKS

The 85-II Telescope was successfully moved from station number 1 to station number 2 on October 9th It took about three to four hours to actually accomplish the move but many more hours of planning were required prior to the move, right down to getting weather predictions for several days prior to the move. (The velocity of wind during the move is a factor to be considered.) All people involved were duly complimented on the job of planning and execution being well done. In spite of the success, several potential improvements in the operation were observed and steps are being taken to effect these improvements. Problems not encountered in the move from station 1 to station 2 are anticipated and we hope to overcome these in advance so that we may have many more successful moves in the future.

----continued on next page----

Rusty Taylor, son of Bedford Taylor, won first place in his age group in the Ford Punt, Pass, and Kick Contest at Marlinton. This makes Rusty's third year of entering the contest and has won first place each year.

ENGINEERING ESSENCE

Tony Miano, Draftsman, has been transferred to the Engineering section.

Sidney Smith is at Kitt Peak making some preliminary surveying.

LABGAB

The 6 cm line receiver has been taken down from the 85-I after a few weeks of observation. results so far from this experiment have been inconclusive. It is now in storage and will be installed on the 140-ft later for more detailed observation.

The 3 mm receiver is slowly shaping up. It will go to Columbus, Ohio with J. Baars about the first of December.

Dewey Ross, of Low-Noise Lab, is in the Marlinton hospital with rhumatic fever. It is expected that he will be away for six months.

This month's injury list also includes Bill Kuhlken who has undergone an operation recently.

rl Cooper is enthused with the People's Transistor Tester. Now is a market materializes here's his first \$ million.

In is a supporter of VGF. Proves what I've said all along - anyone who supports the VGF is a Sapp.

Claude Bare has attended the NEC in Chicago.

Jim Dolan spent a week squirrel hunting. Things have been quiet in Receiver Section. (Anything

that kicks that bad is too darned big for squirrels, anyway.)

Certain people should tread lightly when entering the supply room. This is Underwood territory.

Jim West and David Sun have returned from VPI for this co-op session.

Larry Bowles has joined Low-Noise Lab. Welcome to the group.

LETTERS TO WALLY

The following is a compilation of interesting letters requesting information from Wally Oref, NRAO's Public Information Officer:

Dear Sir:

I am interested in space. Please send me some.

Dear Sir:

I have reason to believe that there is life on the back side of the moon. Will you please aim one of your telescopes to this area. I would appreciate the results as soon as you receive them.

Dear Sir:

Would you please ask the head astronomer (or equivalent) what the chances are of Haily's comment colliding with the 1986. What is the size. This may be just a roomer, but, my friend told me that he read it somewhere. I would be most grateful if you would send the reply to me.

Dear Sirs:

I am a high school student. In the school, I am taking a course in Astronomy. I would like to know if it is possible to send me information on Radio-Telescope, receivers at a freq. of 21 cm. or 2100cm. I would like to build a receiver at this freq. or conveter that would cover the freq.

----continued on next page-----

If it is possible can you please send me information and plans how to build the receiver and a small antenna system, or converter. Thanking you in advance.

Dear Sir:

When crossing the Brooklyn Bridge, I've noticed that the volume of my radio increases. Can such bridges be used for large radio telescopes?

YOU CAN TELL 'EM EVERY TIME"

If you've fished in clear waters and waded in mud, watched the calm rivers, seen many a flood, Traveled the highways on good roads and bad:

Cussed like a trooper, yet seldom are mad I'll bet you're from West Virginia.

If you've sweated in the valley, cooled off on a hill, Tramped through the mountains, drunk corn from a still,

If you like a good fight, can lose and yet grin, Get up on your feet and again try to win – I'll bet you're from West Virginia.

If you ain't afraid of the devil, got fire in your eye God-fearing, and loving the Father on High,
To the limit for friends, but slow to forgive,
Nursing that hurt as long as you live I'll bet you're from West Virginia.

If you've drunk sassafras and old Mountain Tea,
Used "Pennyrile" for the bite of a flea,
You say what you think whether sober or drunk,
Can tell by the wind the trail of a skunk I'll bet you're from West Virginia.

If you've cleaned your teeth with a birch tree twig,
To "Old Dan Tucker" danced many a jib,
Stole behind the barn away from your folks
For Indian Stogie and corn silk smokes I'll bet you're from West Virginia.

If you've talked "Pig Latin", sung "The Old Gray Mare''.

Felt the bite of the "chigger", love a good country fair.

A bit clannish of kin, though "onery" the be, And admit it yourself, but dare us to agree -I'll bet you're from West Virginia.

If you've eat syrup and sausage on your buckwheat cakes.

Snore while you sleep in a bed full of snalkes, Hit what you shoot at, with a short gun or long, And fight the devil while singing a song -I'll bet you're from West Virginia.

You hate the damned Communists and Almond-Eyed Lice,

Itching to fight 'em and not count the price,
You're poud of your State and thrill when you hear
"The Star Spangled Banner" and stand up and
cheer -

"Hell", I know you're from West Virginia.

This poem was found on the back of post card advertising the Brandywine Motel in Brandywine, West Virginia.

OLYMPICS by Yervant Terzian

Dating back in 776 B.C. the ancient Greek games a Olympia were the greatest peacetime festivals for the people bordering the Mediterranean Sea. Olympic celebrations featured sprint races and chariot races. The Pentathlon which included broa jump, foot racing, throwing the discus and the javelin, and wrestling, was the most highly respected event.

When Greece began the fade, so did the games. Under the Roman Empire the Olympics lost their strength and purity. In A. D. 66 the Roman Emperor, Nero, entered games and won every event. By A. D. 394 the Olympic games were dead.

At the end of the last century a Frenchman, Baron Pierre de Coubertin, proposed the splendid idea of reviving the Olympic games. The first modern Olympiad was held at Athens in 1896. This time it was an international affair. Since then every four years the games take place in a different part of the world. In 1968 Mexico City will be the host for the peaceful war of sports.

During the series of the Olympiads in this century old records have always thumbled, this trend will probably continue, but clearly there is a climax of record-breaking in the present decade. In 1956 Tom Burke USA ran the 100 meters in 12.0 seconds. In 1920 Charlie Paddock USA established a new record of 10.8 seconds. In 1932 Eddie Tolan USA ran the same race in 10.3 seconds, in 1960

tom Armin Hary, Germany, sprinted the 100 meters in a new Olympic record of 10.2 seconds. We now hear from Tokyo that Boy Hayes, USA, had an easy run of 10.0 seconds for the same race. The pole-vault event presents another example. In 1896 William Hogt, USA, made a jump of 10-ft 9 and three quarter inches. Today the Olympic record is 16-ft 8 and three quarter inches established by Fred Hanson, USA, in Tokyo. Hanson also holds the world record with a jump of 17-ft 4 inches (using a fiberglass pole).

These are only a few examples of the mights and spectacular athletic efforts that are being challenged every day in any part of the world. The peaceful fight against time in a race, or against time in a race, or against a bar at a hight, or against distance in throwing to congregate in places other than offices. the discus, is the most noble fight of all.

The Greeks are not the Olympic heroes any more, in fact there is a good chance that for the first time they will not carry a single medal back to the mother land of the Olympics.

BEER by Jocob Baars

One of the problems in the daily life of a Deer Creek Valley inhabitant is to obtain a sufficient amount of high quality beer for ones friends and family, especially if they come from various countries in Western Europe. This inconvenience has been felt by most of us.

On the other hand however, one must admit that the water in Green Bank is far superior to that of Rotterdam's. At least, it was that way, but lately, the water in the residence hall occasionally looks more like beer than water. Unfortunately, the water doesn't taste like beer and then again it doesn't always taste like water either.

This situation occurred during the Trustees Meeting last week. So, it may be that the Board of Trustees also became aware about the situation.

I'd like to suggest a possible solution which could end any complaints about the quality of the water. Arrangements should be made by the Observatory to establish a sort of club house for its employees where one could obtain the necessary quantities of beer and other useful drinks for this kind of ambiance. These beverages could be purchased at wholesale prices in Washington, D. C.

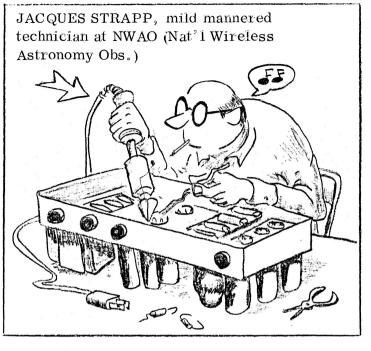
In the coming winter months, life here in Green Bank would be far more exciting and cheaper for us. People here would have a good opportunity

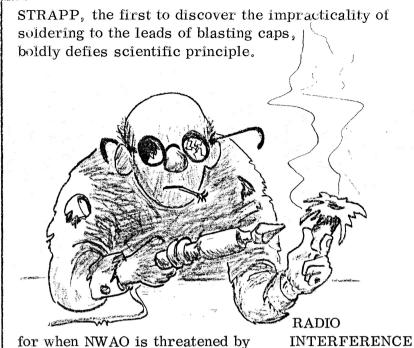
If we succeed to have this suggestion passed by the present administration before the elections, it will also help candidate Johnson get a larger vote in the valley than ever before.

NRAO RECREATION ASSOCIATION

The final regular monthly meeting of the 1963-1964 Board of Directors was held on Tuesday, October 13, 1964. Newly elected members who will take office effective November 1, 1964 were invitited to attend to be briefed on the status of any projects still in progress which will have to be completed under the new regime. Those newly elected were Claude Bare, Jim, Dolan, Bertil Hoglund, Peter Good, Campbell Wade, and Norma Brockway. Members of the current Board whom have been re-elected for another term in office are Carl Davis. Harry Wooddell. Leonard Howell, Bobby Vance, and Sidney Smith. In accordance with a proposal from the Director's Office and a majority vote of acceptance by the Board of Directors on Sept.

1964, and also by the general membership at the annual general meeting of the NRAORA on September 29, 1964, an Observatory representative who will be responsible to the Board for the implementation of major construction projects of the NRAORA has been appointed by the Director. The person appointed to the position was John R. Plunkett. Mr. Plunkett will sit in on the Board's monthly meetings and will assist and/or advise the Board on any major construction projects the Board may wish to pursue. He is not a duly elected member of the Board, and consequently will have no vote in the Board's decisions. The outgoing Board members feel strongly that this arrangement will result in a speedier and more efficient method for getting the work done on such projects.

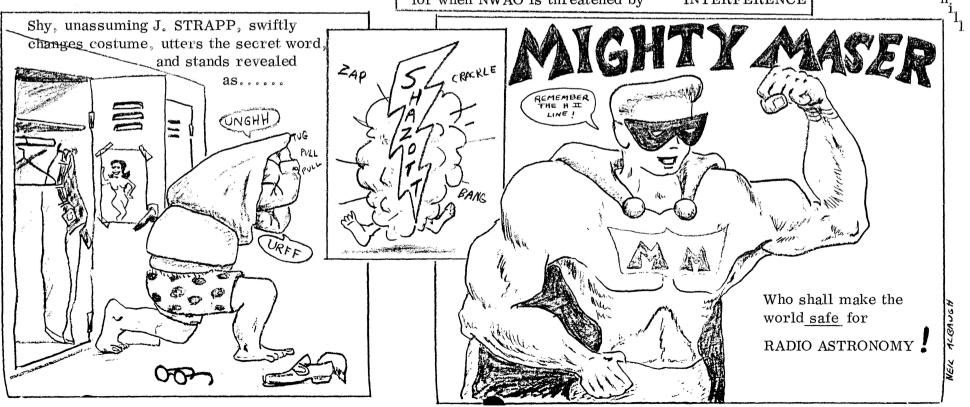








First in a series which, although starting off badly, will quickly go down



Blood Mobile

GREEN BANK SCHOOL NOV. 12th; 3-6 P.M.

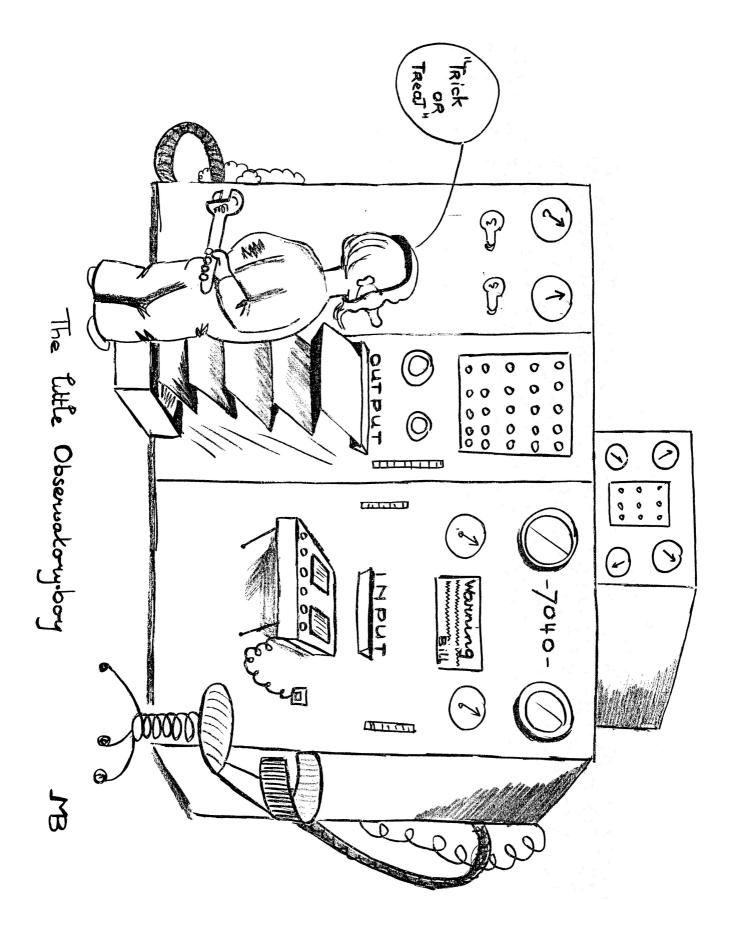
DID YOU KNOW THAT:

- 1. Every resident of this country is afforded total coverage for their blood needs as long as we continue to meet our quota.
- 2. Red Cross blood is available for use in any hospital in the U.S. a that will take advantage of this service for their patients.
- 3. No charge is made for Red Cross Blood. Hospitals charge laboratory and administering fees which often is misunderstood as a charge for the blood. Blood obtained through commercial channels costs from \$25.00 to \$100.00 per pint plus the hospital charges for giving it.
- 4. No blood is wasted. It can be kept for 21 days and used as whole blood after that it is made into blood derivitives which muliply its usefulness.
- 5. When someone needs blood, you may contact the chairman of the county blood program, who will make arrangements for prompt blood delivery to the hospital.
- 6. You can be a part of this life-giving program by donating a pint of your blood on november 12th!

 WILL YOU PLEASE SIGN DONOR'S PLEDGE SLIP AND GIVE TO BILL HORNE, TONY HAMED, SHIRLEY CARPENTER, ED GARDNER AND JAMIE SHEETS.

I WILL GIVE BLOOD ON NOVEMBER 12, 1964, AT THE GREEN BANK SCHOOL.

SIGNED:	



proudly presents the Sorry Film Classicooo

STATTING

Ignacio Tarso
(SPANISH DIALOGUE WITH ENGLISH SUBTITLES)

Every sophisticated movie-goer will want to see this 1961 MEXICAN FILM CLASSIC!

Winner.. at the San Francisco Film Festival! NOMINEE.. for United States Academy Award!

/:30 P.M.

".... the charm of this film is in the felicity with which it flows from a solemn, sad account of misery and futility into a bubbling comedy, spiced with morbid witticisms, and then into a drollish horror tale." - N.Y. TIMES



FEATURE MOTION PICTURE LIST

This is a list of feature motion pictures available for presentation at the NRAORA Monday Night Movies. This list represents a cross-section of films produced here and abroad. Place a check mark beside the kind of films you would like to see. Please try and limit your selections to about 25% of the entire list. Return list to Peter Good, 140 ft. telescope; phone 292 or drop in 140 mailbox, Jansky Lab. Thankyou for your co-operation in this survey.

Seven Samurai (Japanese)	Lost Horizon
Knock on Wood (Danny Kaye)	7th Voyage of Sinbad
Home from the Hill	Stagecoach
Mr. Blandings Builds His Dream House (Cary Grant)	Wackiest Ship in the Army(R. Nelson)
The Desperate Hours (Humphrey Bogart)	To Kill a Mockingbird
Huckleberry Finn	Day the Earth Caught Fire
Come September (Rock Hudson)	Tammy
Paranoiac	O.S.S. (Alan Ladd)
Gunsmoke (Audie Murphy)	The Deadly Mantis
	This Sporting Life (Richard Harris)
Cape Fear (Robert Mitchum) Freud	The Birds
This Gun for Hire (Alan Ladd)	The Great Imposter (Tony Curtis)
The Red Shoes	The Young Lions
Beau Geste (Cary Cooper)	The Desert Fox
_Man in the White Suit (Alec Guinness)	Twelve 0'Clock High (Gregory Peck)
Lavender Hill Mob	Lifeboat
_Odd Man Out	Abandon Ship
Henry V (Laurence Olivier)	The Enemy Below
Tomahawk (Rock Hudson)	Guadacanal Diary
_It Came from Outer Space	Rhapsody
_Operation Petticoat (Tony Curtis)	The Angry Silence
The Magician (Ingmar Bergman)	The Bob Mathias Story
Wild Strawberries	Cowboy
Carry On, Nurse	Death of a Salesman
_1984	5000 Fingers of Dr. T
_The 400 Blows (French)	The Golden Age of Comedy
_Last Year at Marienbad (French)	High Noon
_Lady Chatterley's Lover (French)	I'm All Right Jack (Peter Sellars)
_Aparajito (Indian)	The Mouse that Roared
_Olympia (German)	On the Waterfront
_La Dolce Vita (Italian)	Pepe (Cantinflas)
_Al Capone	The Proud Rebel (Alan Ladd)
_The Bridge (German)	Revenge of Frankenstein
_Duel in the Sun	_A Raisin in the Sun
_Friendly Persuasion	Requiem for a Heavyweight
_Gidget (Sandra Dee)	Sahara (Humphrey Bogart)
_Heidi	Stop, look and laugh (3 Stooges)
_Kon Tiki	_3:10 to Yuma
_The Man who came to Dinner	Antigone (Greek)
_Riot in Cell Block 11	_Sunset Boulevard
_Serengeti Shall Not Die	Julius Caesar
_Song of India (Sabu)	Viva Zapata
_Abe Lincoln in Illinois	Houdina (Tony Curtis)
_Babette Goes to War (Brigitte Bardot)	The Life of Emile Zola (Paul Muni)
_Birth of a Nation (D. W. Griffith)	Cimarron (Glenn Ford)

Motion Picture List Continued

Titanic The Blackboard Jungle The Party Crashers	Country Girl (Bing Crosby)Butterfield 8 (Elizabeth Taylor)The Fountainhead (Gary Cooper)
Escape from East Berlin Ox Bow Incident	The Good Earth (Paul Muni) The Hustler (Paul Newman)
Camille (Greta Garbo)	The Informer (Victor McLaglen)
The Human Comedy (Mickey Rooney)	_A Place in the Sun (Montgomery Clift)
Where the Boys are (Yvette Mimieux)	Peyton Place
Psycho (Alfred Hitchcock)	The Snake Pit
Gaslight (Charles Boyer)	Some Came Running (Frank Sinantra)
House on 92nd Street	The Bellboy (Jerry Lewis)
Murder, Inc.	Lost in a Harem (Abbott & Costello)
Detective Story (Kirk Douglas)	When Comedy was King
The Day Mars Invaded the Earth	Love in a Goldfish Bowl (T. Sands)
The Fly	The Honeymoon Machine
The Blob	Monkey Business (Cary Grant)
The Thing	The Affairs of Dobie Gillis
When World's Collide	_A Nice Little Bank that should be Robbed _Annie Get Your Gun (Betty Hutton)
King Kong Bridges at Toko Ri (William Holden)	Annie Get four Gun (Betty natton)Gigi
Marines, Let's Go	Seven Brides for Seven Brothers
Marines, het's do Davy Crockett (Walt Disney)	The Great Waltz
bayy ordered (walt bishey)The Living Desert (Walt Disney)	Hound Dog Man (Fabian)
The Sea Around Us	Love Me Tender (Elvis Presley)
White Wilderness (Walt Disney)	Country Music Holiday (Ferlin Husky)
Cattle Empire (Joel McCrea)	Tarzan the Ape Man (Johnny Weissmuller)
The Fastest Gun Alive (Glenn Ford)	King Solomon's Mines
Forty Guns	Watusi
The Man Who Shot Liberty Valance (J. Wayne)	North to Alaska (John Wayne)
_My Pal Trigger (Roy Rogers)	Gunga Din (Cary Grant)
_Rawhide (Tyrone Power)	The Stratton Story (James Stewart)
Virginia City (Errol Flynn)	Somebody Up There Likes Me (Paul Newman)
_They Died with their Boots On	The Naked Jungle (Charlton Heston)
_She Wore a Yellow Ribbon	Blackbeard the Pirate
The Brothers Karamazov (Yul Brynner)	Flipper
Citizen Kane	Lassie Come Home
_Quo Vadis	Allegheny Uprising (John Wayne)