Clev. wins 111 in reg. season, falls to NY Giants 4g to 0 in World Series (Willie Sports Mays spectacular catch, Dusty Rhodes 2 HRs 2 singles 7 RBI in 6 AB); George Mikan retires from basketball; Roger Bannister breaks 4 min. mile barrier (3:59.4) Sports Illustrated 1st published Cha cha cha dance step; gas 29¢/gal.; Miscellaneous Davy Crocket accessories; Shakey's Pizza Trix Cereal (40% sugar); Swanson Frozen Dinners intro.; demand for filter tip cigarettes increases (Sportwriter Grantland Rice dies: "When the Great Scorer comes, to mark against Radio your name, he'll not write won or lost, but how you played the game") 1st year for "Gunsmoke" "I left my heart in San Francisco"
"This ole house" "Release Me" "Answer Me" "Little things mean a lot" Music "Three coins in a fountain" "Hey there" "Honeycomb" "Young at Heart" "Mister Sandman" "Shake rattle and roll" Korean War death toll topped by killings on TV; B&W w/19" screen (\$187) "See it Now" documentary on Sen. McCarthy Television (Pop. shows) "I Love Lucy" "The Jackie Gleason Show" "Dragnet" "You bet your life" "Toast of the Town (Ed Sullivan)" (1st year) "Lassie" "Disneyland" "Davy Movies Crockett" "Rin-tin-tin" (Movies) "The Glenn Miller Story" "On the Waterfront "Rear Window" "20,000 Leagues Plays under the Sea" "Seven Samurai" "Peter Pan" musical. "A Star is Born" musical Revised version of Old Testament (Bible) Ian Fleming "Live and Let Die" Charles Lindberg *The Spirit of St. Louis* Books Tennessee Williams "Cat on a hot tin roof" William Goldberg "Lord of the Flies" George Orwell "Animal Farm" Mac Hyman "No Time for Sergeants" Lynn Chadwick "Two Dancing Figures" sculpture Marc Chagall "The Red Roofs" Art Stuart Davis "Colonial Cubism" Max Ernst "Lonely" Pres. Eisenhower outlines "Domino Theory", U.S. negotiates Southeast Asia Treaty Organization (SEATO); Breakthroughs in wheat genetics raises hopes of strains resistant to disease and drought; devel. of solar battery capable of converting News sunlight into electricity; France announces that U.S. has paid for most of IndoChina War; Supreme Court orders school desegreg. in Brown decision; CIA helps overthrow Arbenz Govt. in Guadamala; Oxygen furnace for steelmaking installed by W. Germany and Japan (later for U.S.); More than 1/2 of world's 94 million telephones in U.S.; Congress requires pesticide makers to exhibit data to Food and Drug Administration Puerto Rican Nationalists shoot 5 Congressmen on floor of House of Represen.; Electricity is produced for 1st time from atomic reactor in Soviet Union; Unification Church is founded by Korean evangelist Discoveries Rev. Sun Myung Moon; Dramatic evidence Inventions continues to be published on links between cigarette smoking and cancer; Nobel Prize in Chemistry, Linus Pauling -- structure

of complex substances; Iwo Jima Memorial

1954

Podres pitching, Snyders HR lead Brooklyn over Yanks 4g to 3 in World Series (Amoros game-saving catch in 7th game); Sugar Ray Robinson wins middleweight boxing title for 3rd time

Village Voice, Ann Landers 1st published 8,420 public libraries in U.S. Ford Thunderbird; Crest Toothpaste

Larsen pitches perfect game, Mantle and Berra 3 HRs each as Yanks beat Brooklyn 4g to 3 in World Series; Rocky Marciano retires undefeated; Phil. beats Ft. Wayne for NBA title

American actress Grace Kelly marries Prince Ranier III of Monaco Clairol introduces ad "Does she or doesn't she?"

U.S. Advertising expenditures 9.1 billion P.G. Wodehouse "A Damsel in Distress"

Billboard expands top 25 to Top 100
1st year for "Lawrence Welk Show"
"Queen for a Day"
"Love is a many splendored thing"
"The Bible tells me so" "Maybelline"
"The Tender Trap" "Love and Marriage"
"Earth Angel" "Rock around the Clock"
"Folsom Prison Blues" "Sixteen Tons"
"The Ballad of Davy Crockett"
"The Yellow Rose of Texas"
"How important can it be"

"Roll over Beethoven" "Long Tall Sally"
"Memories are made of this"
"Hound Dog" "Mack the Knife"
"I could have danced all night"
"Blue Suede Shoes" "I Walk the Line"
"On the street where you live"
"Love me Tender" "Que Sera Sera"
"See you later, alligator"
"Heartbreak Hotel" "Alleghany Moon"
"Why do fools fall in love?"
"When Sonny gets Blue"

32 million homes in U.S. have TV (67%)
411 TV stations; beginning of TV western era
"\$64,00 Question" begins big-money quiz
show boom
(Pop. shows) "I Love Lucy" "Ed Sullivan Show
"Disneyland" "Jack Benny" "Perry Como"
(1st year) "Gunsmoke" "Captain Kangaroo")
"Mickey Mouse Club" (Movies) "Godzilla"
"Smiles of a Summer Night" "Richard III"
"Rebel without a Cause" "East of Eden"
"Marty" "To Catch a Thief"
"Damn Yankees" musical

Ed Sullivan pays Elvis \$50,000 to sing
"Hound Dog" on TV; Huntley-Brinkley team
formed at NBC
(Pop. shows) "I Love Lucy" "Ed Sullivan Show"
"General Electric Theater" "The \$64,000
Question" "December Bride" (1st year) "Father
Knows Best" (Movies) "The Ten Commandments"
"The Man with the Golden Arm" "The King and I"
"Lust for Life" "The Searchers" "The Seventh
Seal" "Invasion of the Body Snatchers"
"Around the World in 80 Days"
"My Fair Lady" musical

Anne Morrow Lindbergh "Gift from the Sea"
Guinness Book of World Records
MacKinley Kantor "Andersonville"
J.P. Donleavy "The Ginger Man"
Jack Finney "The Body Snatchers"
Sloan Wilson "The Man in the Gray Flannel
Suit"
Wallace Stevens "Collected Poems"

Wallace Stevens "Collected Poems"
Allen Ginsberg "Howl"
Frances McNulty "The Funny Mixed Up Story"
Virginia Kalil "The Duchess Baked a Cake"
Bernard Buffet "Circus"

Joseph Needham "Science and Civilization in China"

Erich Fromm "The Art of Loving"
W.H. Whyte "The Organization Man"
Goodrich and Hackett "The Diary of Anne Frank"
John F. Kennedy "Profiles in Courage"
Grace Metalious "Peyton Place"
Richard Lippo "Variation within a sphere,
No. 10: The Sun" sculpture
Richard Hamilton "Just what is it that
makes today's home so appealing?" collage
Barbara Hepworth "Orpheus" sculpture

Dr. Martin Luther King Jr. leads bus boycott in Montgomery, AL; Interstate Commerce Commission orders desegregation on interstate trains and buses; Rapid collectivation of agriculture proposed by Chairman Mao In China-- resistance is purged, 26.3 million est. deaths; Sale of IBM 650 (1st business computer) cuts in on UNIVAC's market; U.S. shopping centers increase to 1,800-- migration to suburbs continue; U.S. cigarette consumption resumes rise after 2 yr. drop as ads, shows, and movies on TV promote smoking; Success of "the Pill" is announced at Planned Parenthood Conferences; Disneyland opens in Anaheim, CA; H&R Block Company estab.; link between asbestos and cancer estab.; AFL merges with CIO

European Communist Bloc countries have insurrections following Kruschev's denunciation of Stalin, but these are crushed by Soviet troops; Congressmen signing "Southern Manifesto" promise massive resistance to desegregation; Elvis Presley wings and swings into stardom at age 21, marking the beginning of rock and roll music, and the development of an associated anti-establishment set of values; Gloria Swanson libbies Congressmen's wives for Food Additive Amendment; Congress passes Highway Act, appropriating 32 billion for nationwide road system; Atomic Energy Commission approves of commercial nuclear power; 1st use of term artificial intelligence; development of computer languages relieves tedium of programming computer; 1st transatlantic telephone cable; TWA and United passenger planes collide over Grand Canyon, 128 dead; Nobel Prize in Physics--Shockley, Bordeen, and Brattain-- semiconductors and the transistor effect ion microscope; video tape recorder; Comet

Synthesis of RNA; Solar hot water system; Non-stick saucepans; mechanical lift machine for harvesting fruit

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Burdette's 3 wins, Aaron lead Milwaukee over NY 4g to 3 in World Series; Spaulding Sports Company announces Baseball #10 million produced for organized baseball; Nat. League approves Brooklyn to LA shift: Boston Celtics win NBA championship this year, and in 10 of next 12 years; NBA season MVP Boston's Bob Cousy Miscellaneous Birth record in U.S. 4.3 million McDonald's 1 billioneth hamburger sold Frisbees Motown founded; stereo recordings available "It's not for me to say" "Peggy Sue" Radio "Till there was you" "All Shook Up"
"Jamaican Farewell" "Jailhouse Rock" "Old Cape Cod" "All the Way"
"I feel pretty" "Chances are" "The River Kwai March" "That'll be the day" "Maria" "76 Trombones" "Young Love" "You got me singing the blues" Music Hanna-Barbera starts cartoon company Nikita Kruschev on "Face the Nation" Television (Pop. shows) "Gunsmoke" "Danny Thomas Show" "Tales of Wells Fargo" "Have Gun will Travel" "I've got a secret" (1st year) "Perry Mason"
"Leave it to Beaver" "Woody Woodpecker" "American Bandstand" (Movies) "Peyton Place" Movies "Bridge on the River Kwai" "Jailhouse Rock" "Twelve Angry Men" "Romeo and Juliet" play Plays "The Music Man" musical "West Side Story" musical Vance Packard "The Hidden Persuaders" Robert Paul Smith "Where did you go? Nowhere. What did you do? Nothing." Books Art Linkletter "Kids say the darndest things" C. Northcote Parkinson "Parkinson's Law" Ayn Rand "Atlas Shrugged" Jack Kerouac "On the Road" Dr. Suess "The Cat in the Hat" Arthur Frommer "Europe on \$5 a day" Marc Chagall "Self-Portrait" Art Ellsworth Kelley "New York, NY" Mark Tobey "New Life (Resurection)" Great Leap Forward in China puts 1/2 billion people into 24,000 communes, guaranteed food, clothing, and shelter, but deprived of all private property -- huge irrigation projects, 100 million acres of cropland News added, houseflies, rats, mosquitos eliminated in many ereas; USSR launches Sputnik I 1st man-made satellite; Eisenhower Doctrine for providing aid to any Middle Eastern country threatened by communism; Congress approves Civil Rights Act; More evidence of link between high fat diets and heart disease; EEC establishes to promote economy of Europe; theory explaining superconductivity developed; Jimmy Hoffa gains control of Teamsters (truckers union); 58 Mafia members meet at the home of Joseph Barbara in Apalachin, NY; 1st underground atomic test; Discoveries Ground to air missle; synthetic DNA; Inventions Darvon; Edsel; Portable electric typewriter

1957

Turley, Skowron star as Yanks comeback to beat Milwaukee 4g to 3 in World Series Sugar Ray Robinson wins middleweight boxing title for 5th time; NBA MVP Boston's Bill Russell; Arnold Palmer wins Masters 6,908 Blue Whales killed by whalers Gas 30.4 ¢/gal.; Blue jeans \$3.75 Newspaper 5¢; Hospital room \$28 Modern Maturity, Guns and Ammo magazines 1st published BC comic strip begins; hula hoops

Go-go White Sox defeated by Sherry's pitching and Dodgers 4g to 2 in World Series
Pittsburg's Haddix pitches 12 perfect innings,
loses in 13th
Bill Sharman hits 56 consec. free throws
Rocky Colovito hits 4 HRs in 9 inning game
World Population 3 billion
U.S. Supermarkets 32,000
Mattel introduces Barbie dolls
telephone booth stuffing

"Tom Dooley" "Johnny B. Goode" "At the Hop"
"Dorina" "Short Shorts" "Maybe Baby"
"Beep Beep" "Sugartime" "Sixteen Candles"
"A Certain Smile" "Twilight Time"
"Catch a falling star" "Poor little fool"
"If I had a hammer" "Return to me"
"To know him is to love him"
"Born too late" "The chipmunk song"
"Jingle Bells Rock" "The Witch Doctor"
"Do you want to dance?"

"Venus" "There goes my baby"
"This old man" "High Hopes"
"My Favorite Things" "Sleepwalk"
"Love Potion #9" "Climb every mountain"
"The Sound of Music" "Fever"
"Put your head on my shoulder"
"Breaking up is hard to do"
"The Battle of New Orleans"

41 million homes in U.S. have TV sets
(up from 3.8 million in 1950); live TV
disappears as videotape arrives; Quiz shows
cancelled in major "fix" scandal; Bribery
evidence brings resignation of FCC
commissioner Richard Mack (Pop.shows)
"Gunsmoke" "Wagon Train" "Have Gun Will
Travel" "The Rifleman" "Maverick" (1st year)
"77 Sunset Strip" "Yogi Bear" (Movies)
"Cat on a Hot Tin Roof" "The Fly" "The Blob"
"Defiant Ones" "Sunrise at Campobello" play
"South Pacific" musical

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(Pop. shows) "Gunsmoke" "Have gun will travel"
"Wagon Train" "Father Knows Best" "77 Sunset
Strip" (1st year) "Bonanza" "Dennis the
Menace" "Quick Draw McGraw" "Twilight Zone"
(Movies) "Journey to the center of the Earth"
"Gidget" "Some like it hot" "North by Northwes
"The Diary of Anne Frank" "Black Orpheus"
"Sleeping Beauty" "The 400 Blows"
"Suddenly last summer" "Ben Hur"
"The Miracle Worker" play
"The Sound of Music" musical

James Agee "Death in the Family" (Pulitzer)
Ketti Frings "Look Homeward Angel" (Pulitzer)
Bray Hammond "Banks and Politics in America"
D.C. Jarvis "Folk Medecine"
Alan Watts "Nature, Man and Woman"
J.K. Galbraith "The Affluent Society"
Boris Pasternak "Dr. Zhivago"
Pablo Picasso "Peace"
Henry Moore "Reclining Figure"
Robert Tauschenberg pioneers "pop art"

Pat Boone "Twixt Twelve and Twenty"
Leon Uris "Exodus"
Philip Roth "Goodbye Columbus"
J. Christopher Herald "Mistress to an Age"
Allen Drury "Advise and Consent"
William Gibson "The Miracle Worker"
Ian Fleming "Goldfinger"
E.B. White, William Strunk "Elements of Style"
Guggenheim Museum opens in NYC (designed by Frank Lloyd Wright, featuring Kandinsky)

U.S. launches 1st satellite, Explorer I; Congress creates NASA; Control Data Corp. introduces 1st fully transistorized computer; After 6 years of development and 1800 man-years of programming effort, the complex Sage Air Defense System becomes operational; 1st integrated circuits for computers produced; Dr. Linus Pauling predicts 5 million birth defects from radioactivity already released into atmosohere from atomic explosions; U.S. scientists begin testing ozone layer; Eng. Economist Colin Clark: Population pressure provides stimulus for tech. development"; John Birch Society founded, its monthly magazine American Opinion calls Pres. Eisenhower an agent of intl. communist conspiracy; Van Allen radiation belts around Earth discovered; Nobel Prize for Literature, Boris Pasternak -- "Dr. Zhivago; UPI founded; Acupuncture used as anesthetic Intercontinental ballistic missile; peace symbol; Bank Americard -- credit card; American Express -- credit_card

Fidel Castro takes over leadership of Cuba; Lonik III 1st space probe to return photos from far side of moon; skull fragments with crude stone tools found in Tanganyika's Olduvia Goege by Leakey, dated 1.78 million years ago; Van Doren testifies to Congress that "The \$64,000 Question" game show was rigged; IBM markets 1st transistorized computers; Sony markets 1st transistorized TV sets; TV becomes available to villages in India; 1st fully automated transistor production line in Poughkeepsie, NY; China suffers catastrophic crop failures; New chain printer prints 600 lines per minute; Alaska and Hawaii admitted to U.S.; nationwide U.S. steel strike; Japanese automakers produce 79,000 cars-- up from 110 in 1947; UN General Assembly votes to condemn racial discrimination

Synthetic penicillin

Yanks Richardson Series MVP but Pirates Mazeroski's HR in 9th sinks Yanks 4g to 3 Sports in World Series (10 runs in 10-9 7th game scored in last 2 innings); Dolph Schays of Syracuse 1st NBA player to score more than 15,000 points Howard Johnson restaurant franchise (607); 74 million cars in U.S., on 2.5 million miles of surfaced roads; Cancer causes Miscellaneous 15.6% of deaths, up from 6.6 in 1920; U.S. paperback sales 3 million/yr.; U.S. Adver. Expenditures 11.96 billion Congress investigates "payola" in radio business, Alan Freed "father of rock 'n Radio roll" arrested "Try to remember" "This magic moment" "Camelot" "What do the simple folks do" "Mister Custer" "Handy Man" "I'm Sorry" "Are you lonesome tonight?" "It's now or never "Only the lonely" "Nice 'n Easy"
"Alley Oop" "Georgia on my Mind" Music "Put on a happy face" "Greenfields" "Hey look me over" "Teen Angel" "Never on Sunday" "Everybody's somebodys fool" 86% of U.S. homes have TV sets; 515 TV stations; Year of the Western: ABC11, NBC 9, CBS 8; violence on TV increases (Pop. shows) "Gunsmoke" "Wagon Train" Television "Rawhide" "The Real McCoys" "My Three Sons" (1st year) "The Shari Lewis Show" "Candid Camera" "Flintstones" "Andy Griffith Show" Movies (Movies) "Psycho" "Exodus" "The Virgin Spring "The Miracle Worker" play Plays "The Unsinkable Molly Brown" play "Camelot" musical John Knowles "A Separate Peace" Harper Lee "To Kill a Mockingbird" Joseph Heller "Catch 22" Books William Shirer "The Rise and Fall of the 3rd Reich# Vance Packard "The Waste Makers" Louise Nevelson "An American tribute to the British people" woodpainted gold Larry Rivers "The Final Veteran" Jean Bazaine "The Sea at Noon" Art OPEC meets for 1st time, retracts decrease in oil prices; introduction of removable magnetic disks for storage of computer data; Bethlehem Steel 1st company to use computer (UNIVAC) to handle orders, inventories, News production control; 1st minicomputer --Digital Equipment's PDP-1; Blacks begin "sit-in" demonstrations at Woolworth's lunch counter, Greensboro NC; Eisenhower warns of "military-industrial complex"; Kennedy wins U.S. Pres. election by .3% of popular vote (1st TV debates by candidates) France explodes experimental atomic bomb; U-2 spy plane (U.S.) shot down over Soviet Union; Many African states claim independence; Soviet Union's support of Cuba increases; World fisheries catch 40 million tons, doubling 1950 catch; 141 world cities with population more than 1 million, up from 16 in 1900 Discoveries 1st weather satellite; 1st commercial Inventions satellite (Echo I); 1st U.S. spy satellite; Laser; Oral contraceptives marketed (pill); Soybean protein; pacemaker; red dye no. 2

1960

Whitey Ford 2 shutouts, Richardson's hitting lead Yanks past Cincinnati 4g to 1 in WS; Roger Maris 61 HRs, Mickey Mantle 54 HRs; Boston's Bob Cousy reaches 15,000 pts in NBA; Willie Mays hits 4 HRs in 9 inning game; Willie Shoemaker rides 400erth winner;

Cigarette advertising: 115 million Apartment 3-G comic strip begins Surfing

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Bob Dylan singing in Greenwich Villageis discovered by Columbia Records VP;
Supremes sign with Motown
"Where have all the flowers gone?"
"Shop Around" "Hit the road, Jack"
"It was a very good year" "Travelin' Man"
"Please Mr. Postman" "Tossin' and Turnin'
"Will you still love me tommorrow?"
"A Portrait of my Love" "Big Bad John"
"Where the Boys are" "Moon River"
"Can't help falling in love with you"
"The Wanderer" "Runaround Sue"

FCC Chairman says TV is "vast wasteland"
Pres. Kennedy allows televising of Pres.
press conferences with no restrictions
(Pop. shows) "Wagon Train" "Bonanza"
"Gunsmoke" "Hazel" "Perry Mason"
(1st year) "Dick Van Dyke Show" "Dr. Kildare"
"Courageous Cat and Minute Mouse" "Mr. Ed"
"Bullwinkle" "Top Cat"
(Movies) "The Hustler" "Jules and Jim"
"How to succeed in business without
really trying?" play
"Stop the world I want to get off" musical

Jane Jacobs "The Death and Life of Great
American Cities"

Scarne's "Complete Guide to Gambling"
Harold Robbins "The Carpetbaggers"
Lewis Mumford "The City in History"
Irving Stone "The Agony and the Ecstasy"
John Steinbeck "The Winter of our Discontent"
Robert Heinland "Stranger in a Strange Land"
Stanislaw Lem "Solaris"
Cesar "The Yellow Buick" compressed auto
Robert Indiana "Year of Meteors"
Mark Tobey "Shadow Spirits of the Forest"

CIA backed Bay of Pigs invasion designed to overthrow Castro in Cuba fails; Soviet Gagarin 1st human in space; Sheperd 1st American in space (in Mercury rocket); Soviet construction of Berlin Wall creates temporary security crisis; Americans advised to build nuclear fallout shelters; Civil rights protests turn to riots in Birmingham; Investigation in Scandanavia and Adirondacks suggest acid rain kills some species in lakes; AMA reports link between smoking and heart disease; China suffers crop failures; Museum of Chinese Revolution opens in Peking; Pres. Kennedy creates Peace Corps, Pres. Physical Fitness Program, orders Fed. Space Council to study ways to develop communication satellite systems; DNA genetic code deciphered; Nat. Council of Churches endorses birth control

IBM selectric typewriter; electric toothbrush; IUD; Total breakfast cereal

Ralph Terry MVP as NY edges SF 4g to 3 in WS, Whitey Ford completes 33 consecutive scoreless innings for Series record; Boston Celtics, Bill Russell win 4th straight NBA title; Maury Wills steals 104 bases; Ken Hubbs (Cubs) has 416 consec. chances without an error; Jack Nicklaus wins U.S.Open; Rod Laver wins tennis Grand Slam World population tripled since 1869, will triple again before year 2000 "The Twist" becomes popular dance

"Ballad of Jed Clampett" "Alley Cat"
"You don't know me" "Duke of Earl"
"A Taste of Honey" "The Lonely Bull"
"Sealed with a Kiss" "Return to Sender"
"Good luck charm" "Locomotion"
"Sherry" "I can't stop loving you"
"Days of Wine and Roses" "Wah-watusi"
"He's a rebel" "Blowin' in the Wind"
"If I had a hammer"
"Big Girls don't Cry"
"Only love can break a heart"

90% of U.S. homes have at least one TV (Pop. shows) "Candid Camera" "Red Skelton" "Bonanza" "Ben Casey" "To Tell the Truth" (1st year) "Beverly Hillbillies" "Tonight Show with Johnny Carson" "McHale's Navy" "Jetsons" "Beany and Cecil" "Deputy Dawg" (Movies) "Lawrence of Arabia" "Cleopatra" "Whatever happened to Baby Jane?" "To Kill a Mockingbird" "The Music Man" musical

Marshall McCluhan "Guttenberg Galaxy"
Rachel Carson "Silent Spring"
Alexander Solzhenitzen "One day in the
life of Ivan Denisovich"
Loesser and Burroughs "How to succeed in
business without really trying"
Ken Kesey "One flew over the Cuckoo's Nest"
Helen Gurley Brown "Sex and the Single Girl"
Charles Schultz "Happiness is a Warm Puppy"
Joan Mitchell "Lucky Seven"
Andy Warhol "Green Coca-cola Bottles"

John Glenn 1st American to orbit Earth; Threat of Nuclear War averted during Soviet missile crisis when Soviet transports with nuclear warheads aboard turn back in Atlantic; Stock market has worst day since 1929; Soviets withdraw missiles from Cuba; Pres. Kennedy sends U.S. Marshalls to protect black student at Univ. of Miss.; U.S. money, arms, and field observers sent to S. Vietnam: Computer storage disks -- i disk could store 17 million characters of information; Mariner II 1st space probe to reach vicinity of another planet (Venus); Ranger I 1st space probe to reach the moon; Telstar communications satellite allows direct TV link between Europe and U.S.; In "Guttenberg Galaxy" Marshall McCluhan: "Global village of communication can save mankind": Rachel Carson's "Silent Spring" warns of pesticides, sparks environmental movement; U.S. extends 100 million emergency loan to UN; Nobel Peace Prize, Linus Pauling -- dangers of radioactive fallout 1st industrial robot; tab opening aluminum cans; Moog Synthesizer