## Index

Ad Hoc 206, 154, 158 Administrative Council (of the ITU), 15, 147, 161 Advanced communications technology satellite (ACTS), 140 Aeronautical-mobile satellite service (AMSS), 89-90 Aeronautical public correspondence (APC), 5,25, 119, 132-134, 146 Aeronautical telemetry, 16,53,65,69,71,75-76, 144 AfriSpace, 71 Allocations table. See international Table of Frequency Allocations American Mobile Radio Corporation, 68 American Mobile Satellite Corporation (AMSC), 87-88,92,95,96-97, 116 Ardis, 107 Aries. 114 Association of South East Asian Nations (ASEAN), 23 Baran, Ambassador Jan, 10,21,28,103,120,156, 163, 166. 167. 169 BBC (British Broadcasting Corporation), 55 Berrada, Abderrazak, 17 Broadcasting-Satellite Service-high-definition television (BSS-HDTV), 5, 11, 25, 128-132, 146 Broadcasting-Satellite Service-Sound (BSS-Sound), 4, 11, 15, 16, 53, 63-64, 64-76, 144, 146, 161 Bureau of Communications and Information Policy (CIP), 46, 48, 147, 155-157. See also Department of State Bureau of Telecommunications Development (of the ITU), 16 Cable Television Consumer Protection and Competition Act of 1992, 152

## Canada

and APC, 133

and BSS-Sound, 70, 76, 144

- paging operations in, 105
- CaribSpace, 71
- CCIR. See International Radio Consultative Committee
- CCITT. See International Telegraph and Telephone Consultative Committee
- CDMA (code division multiple access), 116,121,122, 124

Cellular telephone, 77,85, 125, 137 digital standard for, 34, 85-86

- Cellular Telecommunications Industry Association, 77
- Celsat, 117
- Centre National d'Etudes Spatiales (CNES), 103
- CIP. See Bureau of Communications and Information Policy
- CITEL. See Inter-American Telecommunications Conference

Coast Guard, 59,60

Communications Act of 1934, 101, 107

Comsat, 87, 88, 133

- Conference of European Postal and Telecommunicaions administrations (CEPT), 17, 18-21, 125, 133, 137, 162
  - and aeronautical public correspondence, 133
  - and Broadcasting-Satellite Service-Sound, 65, 70
  - and future public land mobile telecommunications systems, 82
  - and high-definition television, 130
  - and low-Earth orbiting satellite systems, 118, 125
  - and Mobile-Satellite Service, 94

187

and Space Services, 136 in WARC-92 negotiations, 18-20, 163-164 restructuring of, 20-21 Constellation Communications, Inc., 113, 114 CoveragePlus, 107 CT2 (cordless telephone 2), 78-79, 84

Department of Communications, 47,49 Department of Defense, 69,71, 134, 135, 171 Department of State, 7,40-49, 147, 149, 155-157, 165 Digital audio broadcasting (DAB), 64,66-76 Digital European cordless telephone (**DECT**), 84 Digital Satellite Broadcasting Corp., 68 Direct broadcast satellite (**DBS**), 36-37, 129-130 DirecTv, 131 Double sideband (**DSB**) transmission, 60-61 Dual-mode mobile telephones, 113, 116, 123-124 Earth-Exploration Satellite Service, 140-141

Electronic Industries Association (EIA), 71 Ellipsat, 113, 114 European Community (EC), 20, 84, 106, 119-120, 125, 155, 156-157 European Radiocommunications Office (ERO), 20, 157

European Telecommunications Standards Institute (ETSI), 20

Extra-vehicular activities (EVA), 136

Federal Aviation Administration, 122

Federal Bureau of Investigation (FBI), 59,60

Federal Communications Commission (FCC), 7, 37, 40-49, 149-153, 165

Fixed Satellite Service (FSS), 134-135

Fixed Service, 61

Footnotes, 14,26, 144

Future Public Land Mobile Telecommunications Systems (FPLMTS), 15,77-86, 125, 137

General-Satellite Service (GSS), 139-140, 141

- Global Maritime Distress and Safety System (GMDSS), 93
- Global Navigation Satellite System (GNSS), 118-119, 123, 157
- Global Positioning System (GPS), 118-119
- Global system for mobile communications (GSM), 84-86,78,82 Globalstar, 114

GLONASS, 111, 112-113, 118-119, 121-122 Gonets, 104

GTE Airfone, 133

Head of delegation, 166-168

Helrnan, Gerald, 155

HDTV. See Broadcasting-Satellite Service-highdefinition television

HFBC-87, 56,58

High-frequency (HF) broadcasting, 11, 55-64, 154, 158-159

High Level Committee, 37, 147

Hubble telescope, 135

Hughes Communications, 131

Industry Advisory Committee, 59,99, 160

Inmarsat (International Maritime Satellite Organization), 26, 88-89, 96-97, 116, 124-126, 133

Intelsat (International Telecommunications Satellite Consortium), 134, 135

Inter-American Telecommunications Conference (CITEL), 21-23, 155,163-165

Interdepartment Radio Advisory Committee (IRAC), 41,48,60,61,72, 154, 158-160

International Civil Aviation Organization (ICAO), 93, 118

International Frequency Registration Board (IFRB), 57

International Radio Consultative Committee (CCIR), 6, 15,53, 147, 155, 163-164

International Table of Frequency Allocations, 11, 26, 52-53, 144

International Telecommunication Union (ITU), 1, 8, 11,27, 146-149

International Telegraph and Telephone Consultative Committee (CCITT), 15, 147, 155 Iridium, 113-116, 120-121, 124, 128, 138

Joint Long-Range Planning Committee, 45-46 Joint Strategic Planning Council, 45

L-band, 35,54,67,69, 144, 154, 157, 161 Land Mobile-Satellite Service (LMSS), 89-90 Leosat, 101 Leosat Panamericana, 104 Lincom Corp., 68 Loral Aerospace Holdings, 68 Loral Cellular Systems, 111-112 Low-Earth orbiting satellites (LEOS), 3,4, 11,26,156 big, 15, 108-128, 144 little, 15,97-108, 144, 157 See *also* Mobile-Satellite Service Lundberg, Olof, 53

Maritime Mobile-Satellite Service (MMSS), 89-90 Mexico, and APC, 133 and BSS-Sound, 70, 76, 144 MOB-87, 89, 119, 133 Mobile-Satellite Service (MSS), 4, 11, 15, 25, 86-128, 146, 151, 171 See also low-Earth orbiting satellites Mobile Service, 4, 77-86 Motorola, 26,29,37, 113, 116, 120, 124, 126, 128 National Aeronautics and Space Administration (NASA), 37-38.134, 137, 165-166 National Association of Broadcasters (NAB), 69,70 National Oceanic and Atmospheric Administration, 105 National Security Council, 60, 158 National Security Directive 51,61 National Telecommunications and Information Administration (NTIA), 7,37,40-49, 149, 153-154, 171 and Interdepartment Radio Advisory Committee, 48-49, 158-160 Negotiated rulemaking, 152 for big LEOS, 117-118, 121, 152 for little LEOS, 103, 106 Norris Satellite Communications, 139 Northwest Airlines, 133 Odyssey, 114

Office of International Communications (OIC), 40 Office of Science and Technology Policy (OSTP), 48 Office of Telecommunications Policy (OTP), 47,48 OmniTracs, 107 ORB-88, 128 Orbcomm, Inc., 101-103 Organization of American States, 21

Pena, Jose Barrionuevo, 10 Personal communication networks (PCN), 84, 85 Personal communication services (PCS), 4, 73, 77, 78-86, 125, 137, 151 FCC proceedings on, 79-82 Plenipotentiary Conferences of **ITU**, 15 Special Plenipotentiary of 1992, 11, 147 Primosphere, L. P., 68 Private sector, 27-29 domestic policymaking and, 28-29,32-33, 34-35 role in international negotiations, 27-28 Project Acorn, 68 Project 21, 116-117

Qualcomm, 107 Quayle, Dan, 26

Radio astronomy, 101, 105, 111, 122-123
Radio Free Europe/Radio Liberty, 59
Radio Moscow, 55
Radio Regulations, 57, 136
Radiocommunication policymaking implications of WARC-92 for, 30-39 long-range planning and, 36-38 market forces and, 30-36 options for improving, 39-49 structural problems, 158
Resolution 46 (COM5/8), 111, 120

S-band, 70, 161 Satellite CD Radio, 67-68, 70 Senior Interagency Group, 45 Shortwave, 55 Single sideband (SSB) transmission, 58-59,63 Sky-Highway Radio Corp., 68 Smolsat, 104 Space Frequency Coordination Group (SFCG), 37-38, 137.141 Space Services, 5, 105, 135-139, 151 Space shuttle, 135, 138 Space Station Freedom, 135, 138 Starsys, Inc., 101-103 Strother Communications, 68 Taos satellite system, 104 Task Force on ITU restructuring, 15,40, 147

TDMA (time division multiple access), 116, 121, 122, 124 Tracking and data relay satellites (TDRS), 134, 138 TRW> Inc., 113, 114

## 190 I The 1992 World Administrative Radio Conference: Technology and Policy Implications

USA Digital Radio, 68 U.S. Air Force, 105 U.S. Information Agency (USIA), 59, 158 U.S. Trade Representative, 46-47, 156-157 United States Satellite Broadcasting, 131 United States Telecommunication Training Institute (usT-rI), 166

Voice of America (VOA), 55,57,59-61, 158-159 Volunteers in Technical Assistance (VITA), 101-103 WARC-92

background, 2,9-15 factors affecting implementation, 144-157 implications for policy, 30-39 structure, 10-11 themes and trends from, 15-29 U.S. delegation, 9-10, 168-169 U.S. negotiating strategies, 169-171 WorldSpace, 71

Superintendent of Docum	ents Publications Order Form
Order Processing Code: <b>"7078</b> <b>YES</b> , please send me the following:	Telephone orders (202) 783-3238 To fax your orders (202) 512-2250 Charge your order. /t's Easy!
copics of The 1992 World Administrative Ray Implications (200 pages), S/N 052-003 -0132	i 0: i
The total cost of my order is \$ International postage and handling and arc subject to change.	customers please add 25%. Prices include regular domestic Please Choose Method of Payment:
(Company or Personal Name) (Please type or print)	GPO Deposit Account
(Additional address/attention line)	VISA or MasterCard Account
(Street address)	1         1
(City, State, ZIP Code)	your order!
(Daytimephone including area code)	(Authorizing Signature) (5,'93
(Purchase Order No.)	YES NO May we make your name/address available to other mailers'! 🔲 🖵

Mail To: New Orders, Superintendent of Documents, P.O.Box 371954, Pittsburgh, PA 15250-7954

THISFORMMAYBE P} {OTOCOPIED