

Index

- Abbey Road Studios, 59
Aboville, R. d', 103, 105, 113, 114
Achter de schermen, 93–95, 276n279, 285n94
Adamov, Arthur, 193, 197: *Ping-Pong*, 197
Adorno, Theodor W., 247
Advance Instruments impulse generator, 263
AEG magnetic tape recorder, 174
Alberteum Palais de la Science, 186
Aldeburgh Festival, 105
Alford, Kenneth, 79, 102, 275n232
Alford: "Colonel Bogey March," 79, 102
Algemene Vereniging Radio Omroep (AVRO), 66, 72, 88, 179, 182, 199, 209, 210, 285n75
ALGOL, 260
Alons, L., 53, 273n130
ambiophonic; ambiophony, 14, 49, 53, 54, 59–61, 70, 71, 77, 86, 97, 99, 122, 220, 238
American Wind Symphony Orchestra, 226
Ampex model 401A tape recorder, 115
Amroh Handy Sound tape recorder, 233
Andriessen, Hendrik, 198
Andriessen, Jurriaan, 87
Andriessen, Louis, 192, 231, 262, 292n338
APELAC, 186
Appel, Karel, 218, 219: *Musique barbare*, 218, 219
Arbeitsgemeinschaft für freie Komposition, 247
arena theatre, 195, 197
Arnaud, Pierre, 144, 153, 280n158, 280n159
Arthuys, Philippe, 179
artificial head microphone; dummy head, 14, 28–32, 44, 45, 47, 48, 52, 71, 270n47, 272n92
ASP, 261
Audio-Visual Research Foundation, 186, 187
Baaren, Kees van, 13, 207, 222, 232, 262–265, 291n290: *Variazioni per orchestra*, 262
Badings, Henk, 10–14, 34, 35, 63–70, 72, 74, 76–78, 81, 83, 85–89, 91–93, 95, 99, 101, 119, 130, 131, 141, 144, 152, 174–188, 192, 193, 201, 202, 205, 209, 210, 212, 214–218, 220, 223–226, 232, 233, 235, 246, 247, 252, 255, 257, 266, 269, 274n193, 276n253, 276n277, 278n67, 281n170, 281n176, 284n22, 284n24, 285n81, 286n102, 294n428, 296n438: *Capriccio*, 85, 87, 91, 210, 233; *De Nacht van Morgen*, 72, 286n102; *De Vliegende Hollander*, 72; *Dialogues for Man and Machine*, 89, 183, 186; *Drei Schwärmerien*, 290n246; *Elektromagnetische Klankfiguren*, 87, 276n253; *Evolutionen*, 85, 281n176; *Geluid der Werkelijkheid*, 83, 85, 144; *Genese*, 89, 91, 186; *Kain en Abel*, 14, 34, 35, 63, 66–69, 71, 72, 76, 77, 95, 130, 131, 177, 178, 180, 182, 183, 185, 220, 281n170, 281n176, 284n22, 285n81, 287n133; *Martin Korda D.P.*, 185, 276n277; *Mens en Machine in Eindhoven*, 85, 184, 185; *Orestes*, 65–67, 88, 175, 176, 226, 235, 274n188; *Pittsburgh Concerto*, 226, 290n259; *Second Symphony*, 65; *Second Violin Concerto*, 65; *The Countess Cathleen*, 65, 174, 286n102; *Third Symphony*, 65; *Three Lucebert Songs*, 225, 290n246; *Toccata I and II*, 226; *Variations électroniques*, 72, 75–77, 83, 131, 184, 185, 192, 268, 281n176, 284n24
Baltan, Kid (Dick Raaijmakers), 77–80, 89, 94, 101, 102, 175, 177, 183, 184, 209, 210, 227, 275n228, 275n240, 286n104
Barber, Samuel, 141
Barnstijn, Loet Cohen, 23
Bartók, Béla, 47, 115, 198
Bayerischer Rundfunk, 249
BBC, 27, 28, 53, 66, 271n55, 274n188
Beatles, the, 59, 268, 276n280, 292n342
Beinum, Eduard van, 47, 65, 118
Béjart, Maurice, 84, 186
Belgian National Institute for Radio Broadcasting (NIR), 184–186
Bell System Laboratories, 39
Berg, Paul, 261
Bergeijk, Gilius van, 262, 264
Berio, Luciano, 89, 186, 188, 285n74: *Thema (Omaggio a Joyce)*, 89, 186
Berliner Philharmoniker, 119
Bernstein, Leonard, 141
Berretty, Yoka, 193
Berten, Walter Michael, 250, 251
Beyer, Robert, 174, 247, 273n161, 283n7
Boehmer, Konrad, 192, 252
Boer, Kornelis de, 30–33, 36, 270n44, 270n47
Boer, Hans de, 159–161, 282n205
Boerman, Jan, 12, 13, 91, 180, 197, 198, 200, 209, 212, 213, 218, 231, 232, 234–237, 243–246, 262–264, 268, 269, 286n117, 291n309, 292n344, 292n345: *Alchemie 1961*, 91, 198, 209, 212, 213, 231, 232, 234, 245, 268, 293; *Alliage*, 198; *De Zee*, 213, 245, 246; *Kompositie 1972*, 213; *Kompositie 1979*, 213; *Musique concrète*, 198; *Ruïne*, 198
Bois, Rob du, 231
Bomli, E., 140, 178, 184, 209, 213, 214, 218, 222, 230, 255
Bon, Maarten, 262, 295n444
Bottema, Piet, 176
Bottje, Will Gay, 224
Boudreau, Robert Austin, 226
Boulez, Pierre, 89, 90, 116, 184, 226, 231, 285n74, 293n357, 293n376: *Deux études concrètes*, 293n 357, 293n376; *Le marteau sans maître*, 285n74; *Piano Sonata no.2*, 285n74; *Poésie pour pouvoir*, 89, 90
Brandon, Arie, 66, 67, 70, 131, 176
Brasilia, 277n7
Britten, Benjamin, 103, 105, 106, 114, 118, 119, 284n47: *The Young Person's Guide to the Orchestra* (aka *Variations and Fugue on a Theme of Purcell*), 105, 106
Broeksz, J., 182
Brons, Carel, 222
Brown, Earle, 186, 257, 285n74
Bruel & Kjaer 1610 / 1612 third-octave filter, 199, 200, 235, 237, 286n125
Bruin, Simon Leo de, 120, 124–126, 155, 166–168, 279n104
Bruins, Theo, 262
Brumsteede, Emile, 76
Brün, Herbert, 252
Bruyn, Jan de, 63, 67, 69–71, 75–78, 120, 130–132, 141–145, 149, 151, 152, 192, 279n104, 294n428
Bruynèl, Ton, 12, 91, 218, 231–236, 243, 244, 260, 291n295, 291n305, 292n338: *Afscheid*, 233; *Collage Resonance II*, 234, 291n305; *Nocturne grave*, 233; *Reflexes*, 233; *Reliëf*, 243, 244, 292n338; *Resonance I*, 91, 233, 234, 292; *Studie*, 233
Buczynski, Anton, 135, 144–149, 151, 152, 159, 161, 166
Cage, John, 141, 186, 285n74
canned music, 38–40, 48, 66, 77, 78
Cardew, Cornelius, 252
Carillon Films, 76
Carter, Elliott, 141
Casimir, Hendrik, 18, 62, 96, 98, 142, 143, 151, 209, 213–216, 232, 236, 256, 257, 261, 262, CBC Radio, 91
cellophane copies (of Philimil film), 31–33, 46
Centro Sperimentale Elettroacustico, 59, 86
Chaîne Nationale, 116
Chevalier, Maurice
Chottin, Georges, 154
Cinesonor N.V., 24
Cinetone film studios, 72
Claude, George, 18
Claude tubes, 18
Claus, Hugo, 193
Cléber, Jos, 80
Club d'Essai, 187, 248, 254, 278n46
Cocteau, Jean, 248, 249, 251
Cologne school, 72, 178, 179, 209
Cologne studio, 13, 174, 224, 250, 253, 260
Columbia Records, 170
Columbia University, 79, 80
Columbia-Princeton Electronic Music Center, 232
compact cassette, 96
Concertgebouw Amsterdam, 43, 45–47, 49, 51, 88, 270n42, 286n110
Concertgebouw Orchestra, 26, 45, 47, 119, 270n42, 284n47
Contactorgaan Elektronische Muziek (CEM), 11–13, 88, 97, 98, 177–190, 192, 193, 195, 198–201, 203–207, 209, 213, 219, 222, 230, 232, 255, 262, 274n197
Copland, Aaron, 141
Copley, Alfred L., 116
Cordess, Dorothea, 235
Cordess, Frits, 235, 291n309
Cornelis, Evert, 118–120, 278n63
Cox, Wiel, 124, 126, 165
CSP 1, 261
CYS 1, 83–85, 144
d'Aboville, R. See Aboville, R. d'
Dantzig, Rudi van, 245, 246
Danzi Quintet, 87, 88, 285n69
DBX, 44
de Boer, Kornelis. See Boer, Kornelis de
de Boer, Hans. See Boer, Hans de
De bouw van het Philipspaviljoen, 125
de Bruin, Simon Leo. See Bruin, Simon Leo de
de Bruyn, Jan. See Bruyn, Jan de
de Hartmann, Thomas. See Hartmann, Thomas de
de la Motte-Haber, Helga. See Motte-Haber, Helga de la
De Lantaren, 231, 234
de Leeuw, Reinbert. See Leeuw, Reinbert de
de Leeuw, Ton. See Leeuw, Ton de
De Luis, 233
de Ridder, Willem. See Ridder, Willem de
De televisiebeeldbuis, 236
de Vries, Frank. See Vries, Frank de
De zwarte bonenluis, 218
Décade de la musique nouvelle Américaine, 141, 280n135
delay wheel (of the Philips electronic reverberation system), 56–59
des Tombe, J. H. See Tombe, J. H. des
Deutekom, Cristina, 140, 146
Deutsch, Max, 254
Di Bello, Victor, 91
Diamand, Peter, 181, 184
Diffusion Magnétique Sonore (DMS), 144, 153, 155, 280n159, 281n185
Digital Equipment Corporation (DEC) PDP-15 computer, 261
digital-to-analog converter, 253, 256, 260
Dijk, Piet van, 80
Diode III; *Diode IV*, 236
Disney, Walt, 42, 106, 141
Dissevelt, Tom, 11, 34, 67, 80–83, 89, 94, 101, 175, 209–211, 215, 226–229, 275n240, 275n242, 285n96, 287n163: *Electronic Movements*, 80, 83, 227; *Fantasy in Orbit*, 226–229, 290n264; *Intersection*, 94, 209, 210, 227; "Syncopation," 82; "Vibration," 34, 81–83, 210, 227; "Whirling," 82
dodecaphonic; dodecaphony, 83, 88, 178, 227, 229, 262, 285n74
Dolby A, 44
Dollywood Studios, 73
Dome of Discovery, 103, 106
Donaueschinger Musiktage, 89, 278n51
Donemus, 179, 222
Dongen, Theo van, 80, 82, 87
Doorn, Frans van, 264
Dreamland, 73
Dresden, Sam, 53
du Bois, Rob. See Bois, Rob du
Düring, Jan, 36, 37
Dutch National Ballet, 245, 246, 286n117
Dutton, Gilbert F., 59
Duyster, Hoyte, 126, 142, 143
Edgar, Hindle, 94
Éditions de la Boîte à Musique, 119
Een groot dood dier, 197, 236
Eimert, Herbert, 13, 81, 174, 179, 186, 210, 224, 240, 247, 248, 250, 251, 253, 254, 275n206, 283n7, 289n218, 294n390: *Fünf Stücke*, 179, 275n206, 289n218
Eindhovense Muziekschool, 37
Eisma, Wil: *BTH. 3457*, 289n239
Elder Conservatorium of Music, 226

electric monochord, 236, 237, 263
 electrical shaft, 23, 163, 271, 282n210
 Electrologica factory, 294n428
 Electrologica X1 and X8 computers, 257, 260
 electronic reverberation, 14, 49, 55–58, 61, 69, 70, 77, 97, 98, 130, 131, 135, 149, 151, 158, 174, 175, 183, 242
 Elektronisch Rekenentrum, 257
elektronische Musik, 7, 9, 11, 12, 174, 180, 186, 209, 247
 EMI, 59, 60
 Endt, Pieter Maarten, 203
 English Opera Group, 105, 284n47
 Enkel, Fritz, 174, 250
 envelope; envelope generator, 55, 58, 69, 132, 208, 224
 Escher, Rudolf, 97, 98, 197–199, 204–207, 209, 212, 218, 224–226, 230, 232, 240, 257, 287n142, 288n198, 294n426: *Summer Rites at Noon*, 209, 212, 213, 218
 Etablissements Delauné, 113
 Evangelisti, Franco, 224, 252
 experimental television broadcasts, 74
 Expressor, 44–48

Fantasia, 42, 43, 51, 106, 271n83, 272n125, 282n207
 Fantasound, 42, 43, 53, 271n89
 Fassett, Jim, 182: *Symphony of the Birds*, 182
 Feenstra, Rudie, 235, 291n309
 Ferrari, Luc, 186
 Festival de l'Art d'Avant-Garde, 84
 Festival Musica Viva, 116
 Festival of Britain, 103, 104
 Fibonacci sequences, 245, 292n344
 Filmliga, 24
 Films Sonores Tobis, 25
 Fluxus, 15, 231
 FORTRAN, 260
 France Inter, 116
Fuel for the Future, 94, 95, 285n94

 Garity, William E., 42
 Gaskell, Sonia, 182
 Gaudeamus composers, 176, 190, 207
 Gaudeamus foundation, 11, 67, 173, 177–179, 189, 206, 224, 230
 Gaudeamus lecture (Koenig), 220, 221
 Gaudeamus Muziekweek, 173, 176, 178, 195, 219, 222, 257
 Gebouw voor Kunsten en Wetenschappen, 58, 71, 130
 Geesink, Joop, 72–74
 Geesink-Toonder Studio, 73
 Gelder, Han van, 15, 74, 193, 276
 Genootschap van Nederlandse Componisten (GeNeCo), 179, 262
 German academy Villa Massimo, 255, 294n418
 Gibson, Brian, 59
 Giltay, Berend: *Polychromie I*, 289n239
 Ginneken, Jaap van, 47, 272n111
Glas, 193, 285n96
 Goeyvaerts, Karel, 247, 283n7: *Compositie nr. 5 met zuivere tonen*, 283n7; *Sonata for Two Pianos*, 247
 golden section, 213, 245
 Gorter, Klaus: *K45*; *VG56*, 289n239
 Gould, Glenn, 91, 276n273: *Dialogues on the Prospects of Recording*, 91

Gravesaner Blätter, 59, 86, 99, 101, 116, 136
 Gredinger, Paul, 250, 294n390
 Gredinger: *Formanten*, 294n390
 Groot, Rens, 218
 Groupe de Recherche de Musique Concrète, 116

 Haagsche Piano Academie, 235
 Haanstra, Bert, 193
 Haas, Max de, 182
 Habraken-van Hall, Marleen, 232, 286n100
 Hacken, Huub ten, 243
 Hafner, Erhard, 250
 Hall, Marleen van, see Habraken-van Hall, Marleen
 Hambræus, Bengt, 252
 Hammond organ, 180, 218, 295n453
 Harley, James, 281n178, 281n185, 281n194
 Hartmann, Thomas de, 88
 Hartong, H. J. R. G., 43, 46, 47, 118, 142, 182
 Hawkins, John N. A., 42
 hearing aids, 28
 Heine, Heinrich, 176
 HeiB, Hermann: *Elektronische Komposition I*, 275n206, 289n218
 Hemel, Oscar van, 222
 Hendriksen, Jens: *Philips Light/Luz/Lumière*, 285n95
 Hendrix, Jimi, 292n342
 Henry, Pierre, 83, 84, 116, 117, 120, 182, 186, 188, 247, 293n357: *Antiphonie*, 293n357; *Dimanche noir*, 182; *Orphée 53*, 188, 247, 293n357
 Hervé, Lucien, 159, 162
 Hessischer Rundfunk, 249
 Hindemith, Paul, 47, 65
 Holland Festival, 67, 71, 88, 144, 181, 182, 184, 185, 197, 236, 246, 280n156, 284n47, 284n48, 285n79
 Holst, Gilles, 17, 18, 26, 42–46, 62, 272n92
 Honor TE-22 sine/square wave generator, 263
 Horne, Dick, 94, 276n280
 Houët, Hub., 147
 Hoving, Hattum, 218
 Hoving, Sieto, 193
 Huydts, P. A. I., 178, 179, 181

 IBM, 110, 253, 257, 260
 IBM 7090 computer, 257, 260
 Iersel, Kees van, 193, 197, 234, 236
 Ilcken, Wessel, 80
 Institut für musisch-technische Gestaltung, 249, 251
 Institut für Phonetik und Kommunikationsforschung, 247
 Institute for Phonetic, Acoustic and Experimental Musicological Research, 204, 215
 Institute of Sonology, 260, 261, 286n125, 287n150, 287n158, 294n397, 295n436
 Interlock, 164, 165, 282n211
 International Building and Public Works Exhibition, 83, 144
 International Congress on Acoustics, 57
 International Days of Experimental Music, 89, 185–188, 285n74
International Lighting Review, 107, 111
 International Summer Course for New Music Darmstadt, 173, 174, 223, 247, 249
 Internationale Kunstwoche der Musikalischen Jugend Deutschlands, 174

Ionesco, Eugène, 193, 195, 286n103: *Jack, or the Submission*, 195, 286n103; *The Bald Prima Donna*, 195, 286n103
 Ittmann, Trudi, 225
 Ivens, Joris, 15, 24, 25, 74

 Jansen, Johan, 111
 Jelinek, Hanns, 81, 210
 Jolivet, André, 116
 Jurrès, André, 222

 Kaegi, Werner, 261
 Kagel, Mauricio, 186, 252, 285n74
 Kalff, Louis, 18, 25, 36, 102–107, 111, 113, 114, 117–120, 123–127, 130, 137, 140, 142, 143, 153–156, 166–168, 269, 269n7, 277n10
 Karajan, Herbert von, 58, 105
 Kast, Pierre: *l'Architecte du Bonheur*, 283n236
 Katholieke Radio Omroep (KRO), 65
 Kerr cell technique, 25, 270n32
 Ketting, Otto, 178
 Kid Baltan (Dick Raaijmakers). See Baltan, Kid
 Klangfarbenmelodie, 69, 274n193
 Klebe, Giselher, 252, 275n206, 289n218: *Interferenzen*, 275n206, 289n218
 Kleis, D., 58
 Koch, Friedrich, 262
 Koenig, Gottfried Michael, 12–14, 71, 179, 186, 187, 219–225, 227, 229, 232, 237, 246–257, 259–261, 263, 264, 274n195, 289n219, 292n339, 293n376, 293n380, 294n397, 294n398, 294n426, 294n427, 295n431, 295n436: *Drei Orchesterstücke*, 249; *Essay*, 186, 220, 252, 289n219; *Funktionen*, 252, 294n397; *Horae*, 247, 249; *Klangfiguren I*, 250, 251, 255; *Klangfiguren II*, 71, 179, 187, 220, 252; *Projekt 1: Version 1*, 259, 260; *Reading Gaol*, 249, 251; *String Quartet 1959*, 229; *Terminus*, 229, 252, 253, 294n397
 Kok, Willem, 177–181, 189–192, 198–202, 204, 206, 222, 223, 225, 231, 235, 262, 291n299
 Kolthoff, Mark, 24
 Koninklijke Nederlandse Toonkunstenaars Vereniging, 179, 222
 Koninklijke Schouwburg, 71
 Kooy, Tymen van der, 194, 195, 197, 286n104: *Klankstudie*, 195, 286n104
 Kopierkopf, 251
 Kosten, Cornelis Willem, 177, 191
 Kouwenaar, Gerrit, 234, 292
 Kox, Hans, 87, 176, 215, 218, 225
 Krenek, Ernst, 252, 275n206, 285n69, 289n218: *Spiritus Intelligentiae Sanctus*, 275n206, 289n218; *Pentagram*, 285n69
 Kretsch, 24, 25, 270n32
 Kroner, Friedrich, 55
 Krückeberg, Fritz, 253
 Külenburg, Wim van, 209, 217, 264
 Kunst, Jaap, 88
 Kunstliefde, 233
 Kurhaus Pavilion Scheveningen, 197

 La Gaité, 195
 Laboratorium voor Technische Physica (Delft), 191
 laboratory for experimental musicological research, 225, 232

Lachman, Hans, 186, 187, 285n75: *Amsterdam*, 186, 285n75
 Language of Intensities, 140
 Le Corbusier, 7, 11, 84, 85, 101, 103, 106, 109, 111, 114, 115, 117–121, 124–127, 129, 130, 137, 138, 142–144, 153, 155, 156, 159, 162, 166–171, 278n40, 283n236
Le poème électronique, 23, 35, 99, 101, 102, 111, 114, 115, 117, 125, 127, 129, 131, 133, 137, 138–140, 142, 144–147, 149–151, 153, 155–157, 162–164, 166–171, 184, 187, 208, 271n88, 274n197, 280n127, 281n173, 281n177, 282n211, 283n238
 Leblond, Georges, 24, 270n32
 Leeuw, Reinbert de, 192, 262
 Leeuw, Ton de, 12, 87, 88, 92, 174, 176, 178, 180–183, 185–188, 195, 205, 207, 210, 215, 220, 223, 262, 285n69, 285n73, 292n338: *Antiphonie*, 87, 88, 92, 185, 210, 220, 285n69, 292n338; *Elektronische studie*, 88, 186–188, 285n73; *Job*, 87, 176, 177, 182, 183, 188; *String Quartet No.1*, 88
 Lichtveld, Lou, 15, 25, 74, 270n31
 Ligeti, György, 186, 188, 252: *Artikulation*, 186
 Lilien, Ignace, 195
 Loetafoon, 22–24
 London Symphony Orchestra, 106
 Lootsma, Bart, 282n211
 loudspeaker violins (Philiiolist), 36, 37, 62, 288n198
 Luders, Coen, 195
 Ludolf, Luuk, 66
 Lumley, Bob, 94

 Maas, Walter, 11, 67, 173–179, 181–183, 185, 188, 190, 200, 203, 219, 222, 230, 257, 283n14
 Maatschappij tot Bevordering der Toonkunst, 178, 203
 Maderna, Bruno, 117, 182, 186, 188, 205, 285n74, 293n376: *Dimensioni*, 285n74; *Notturmo*, 182
 Madge, Geoffrey, 226
 Malraux, André, 116, 254, 294n415
 Marsman, Hendrik, 233
 Martenot, Maurice, 42, 50, 61, 76, 83, 271n82
 Martin, Frank, 255
Masquerage, 182
 Masséus, Jan, 193, 195, 275n221
Matthäus Passion; *St. Matthew Passion*, 61, 86, 270n42
 Meinsma, G. L., 204
 Melochord, 174, 175
 Mengelberg, Willem, 27, 65, 270n42, 278n63
 Mengelberg, Misha, 192, 195, 230, 231, 262, 292n338, 295n444
 Menotti, Gian Carlo, 141
Mens en Melodie, 72, 178, 187, 190
 Menuhin, Yehudi, 47
 Messiaen, Olivier, 88, 116, 174, 285n74, 293n357, 293n376
 Messiaen: *Timbres-Durées*, 293n357, 293n376
 Metzger, Heinz-Klaus, 254, 255
 Meulen, M. J. C. van der, 272n112
 Meulen, John van der, 74
 Meyer-Eppler, Werner, 61, 174–176, 179, 186, 247, 248, 250, 273n161, 283n14
 Michaux, Henri, 116
 Middleton, Sam, 234
 Miller, James Arthur, 26
 Miller Broadcasting Company, 26
 Moesman, Joop, 233

- Mol, Hendrik, 204–206, 232
Mondriaan, Piet, 210
Monti, Vittorio, 63; *Czárdás*, 63
Monument voor een gestorven jongen, 245, 246, 292n350
Mood Engineering Society (MES), 15, 230, 231, 233, 234, 245, 262, 292n338
Moonen, Jan, 93
Motte-Haber, Helga de la, 280n127
Mul, Jan, 190
Mulisch, Harry, 195
Multivibrator, 63, 64, 67, 69, 177
Museum Boijmans, 105, 277n14
music laboratory, 38, 40, 50
musicology, 201, 203, 205, 213, 215, 226, 246
Musik und Elektroakustik conference, 60, 86, 97
Musikalisches Nachtprogramm, 81
musique concrète, 7, 9, 11, 12, 15, 79, 84, 116, 118, 119, 171, 174, 179, 180, 186–188, 209, 234, 247, 285n74, 289n210, 293n357, 293n376
- National Ballet of Canada, 91
Nederlands Ballet, 67, 182
Nederlands Fotomuseum, 159
Nederlandse Christelijke Radio Vereniging (NCRV), 27, 175, 234
Nederlandse Radio Unie (NRU), 64–67, 70, 131, 140, 175, 176–179, 182, 184, 187, 191, 192, 201, 206, 226, 230, 283n14, 285n73
Nederlandse Televisie Stichting, 287n158
Netherlands Ministry of Education, Arts and Sciences, 98, 189, 203, 223
Netherlands Organisation for Applied Scientific Research (TNO), 120
Neumann KM54 microphone, 92
New Music Society, 139
Nilsson, Bo, 252, 285n69, 294n398
noise generator, 63, 69, 175, 191, 199, 206, 263
Nono, Luigi, 285n74, 293n376; *Epitaffio per Federico García Lorca No. 1*, 293n376; *Incontri*, 285n74
Nordwestdeutscher Rundfunk (NWDR), 13, 81, 174, 273n161
Notre Dame du Haut chapel Ronchamp, 103, 106, 115, 169, 170, 278n40
Numann, Sies W., 24, 43, 47, 72, 74, 142, 143, 270n27
Nureyev, Rudolf, 246
- Odé, Jan, 204, 205
ondes Martenot, 41, 61, 76, 78, 79, 83, 115, 208, 271n81, 272n120
optical siren, 33, 35, 69, 177, 271n59
Orchestre National de l'ORTF, 116
Orthel, León, 197
- Paap, Wouter, 72, 178, 188, 190, 284n27
Pal, George, 72, 74
Pal Studio, 72, 275n209
Paleontologie, 193, 275n221
Passchier, H., 175
Paul Sacher Foundation, 133, 140
Pauwert, Henri Eduard van den, 102
Paz & Silva, 18
Peekel: 230R noise generator, 263; function generator, 191, 199, 236, 237; noise generator, 191, 199, 206; sine wave generator, 191, 199;
- TF273 third-octave filter, 199, 200, 237; TF296 third-octave filter, 286n125; TF823 multi-octave filter, 191, 199, 237
perfo tape; perforated tape; perfo master, 151, 155, 162, 163, 165, 166, 168, 282n214; TF824, 263
Petit, Jean, 153, 167, 281n177
Phi-garo in het woud, 73
Philadelphia Academy of Music, 42
Philadelphia-Washington experiment, 271n71
Philibassist, 62
Philicord, 62, 63, 67, 70, 273n171
Philimil film, 26, 28, 31, 32, 43
Philologist, 36, 62, 288n198
Philips, Anton Frederik, 18
Philips, Frits, 42, 142, 143, 182
Philips Bedrijfs Omroep (PhiBO), 11, 78
Philips Disques France, 144, 153, 281n185
Philips ELA, 11, 58, 77, 102, 105–109, 111, 124, 131, 133, 144, 151, 152, 187, 192, 273n140, 274n197, 277n10, 279n104, 294n428
Philips Experimentele Televisie (PhET), 74
Philips Fidelio, 36
Philips Hoofd Industrie Groepen (HIGs), 43, 106
Philips Lichtadvies Bureau (LiBu), 102
Philips Ontspanningsgebouw, 36, 54, 58, 71, 285n53
Philips Pavilion (1958 Brussels World's Fair), 7, 10, 11, 14, 18, 21, 23, 30, 77, 102, 103, 105–107, 109, 111–117, 119–125, 131, 133, 134, 136, 147, 151–153, 157–159, 162–164, 167–171, 187, 190, 220, 269n7, 271n88, 273n140, 281n188, 284n47
Philips Pavilions (1935 Brussels World's Fair), 102, 103
Philips Research Laboratories, 9, 10, 12, 14, 15, 17–19, 21–24, 27, 33, 35, 37, 38, 42, 45, 53, 57, 58, 62–64, 67, 69, 70, 72, 74, 77, 81, 82, 88, 90, 92, 95–97, 99, 101, 106, 107, 124, 131, 149, 175, 177, 179, 183, 185, 187, 194, 200, 209, 220, 227, 238, 242, 252, 272n120, 273n140, 275n242, 276n277, 284n24, 285n81, 286n104
Philips Schouwburg, 182, 183, 237, 284n53
Philips-Miller, 26–28, 30–33, 43–46, 52, 55, 72, 107, 108, 270n42, 272n92
Philips-Radio, 24, 25
Philips, Société Anonyme, 113
Philips' Modern Music Series, 170
Philips' Phonographic Industries (PPI), 47, 80, 87, 118, 119, 131, 148, 149, 226, 273n169, 278n63
Philips: 10040 tape recorder, 70; 9710M loudspeaker, 21, 71, 76, 79, 132, 237, 269n13; 9762/00 loudspeaker, 126; DP70 film projector, 109; EL3501 tape recorder, 70; EL3505 tape recorder, 144, 274n197; EL3507 tape recorder, 144, 274n197; EL3509 tape recorder, 76, 79, 131, 132, 144, 208, 274n197; EL3516 tape recorder, 79, 208; EL3800 mixing desk, 131–133, 151, 152, 279n105; EL6040 microphone, 131, 132; EL6471 amplifier, 131; EL6910 electronic reverberation system, 58, 59, 69, 70, 131, 135; GM2307 sine wave generator, 35, 55, 67, 69, 199, 206; GM2308 sine wave generator, 131, 132; GM2314 impulse/sawtooth generator, 131, 132, 208; GM2315 sine wave generator, 69, 76, 79, 131, 132, 279n105; GM5655 oscilloscope, 79, 191; GM5659 oscilloscope, 76, 131, 132; Studio Magnetophon 10039 / 10039 tape recorder, 55, 56, 67, 69, 76, 79, 144, 199, 200, 206, 274n197
Philisonor film projector, 24
- Pijper, Willem, 47, 53, 64, 198, 262, 296n438
PILE, 261
POD, 261
Point Park College Pittsburgh, 224, 226, 246
Polet, Sybren, 193
Polygoon Profilti, 93
Pomare, Eleo, 233, 234
Ponse, Luctor, 260, 289n239; *Etude I*, 289n239
Porcelijn, David, 262
Poulin, Jacques, 61
Pousseur, Henri, 182, 186, 205, 224, 250, 286n74, 294n390; *Séismogramme I*; *Séismogrammes*, 182, 294n390
Prix Italia, 66, 67, 87, 175, 177, 180, 195
Project 1, 253, 254, 259, 260, 295n431
Project 2, 261
pulsating sphere, 86
punched tape technique, 87
puppetoons, 72
Purcell, Henry, 106; *Abdelazar*, 106
- Raaijmakers, Dick, 9, 11–15, 63, 67, 68, 76–80, 82, 83, 86–95, 98, 99, 131, 152, 183, 184, 187, 192–195, 197, 207–210, 212–215, 217, 218, 230–233, 235–245, 252, 257, 262–265, 272n120, 275n228, 275n242, 276n263, 276n277, 286n104, 286n113, 291n280, 291n317, 292n332, 292n345, 294n427; *Cahier "M"*, 241–242; *Contrasts*, 91, 93, 286n104; *Klankstudie over één motief*, 195, 286n104; *Mechanical Motions*, 94, 210; "Night Train Blues," 11, 78, 79, 89, 102, 183, 275n227; *Pianoforte*, 91, 92, 231, 233, 265; "Song of the Second Moon," 11, 78–80, 89, 102, 177, 183, 184, 193; *Tweeklank*, 90, 91, 93, 286n104; *Vijf canons*, 92, 240, 242; *Vijf platiëken*, 91, 92, 210
radiating wall, 86
Radio Bremen, 249
Radio Diffusion Française, 184
Radio Nederland Wereldomroep, 223
Radio Valve Revolution, 72
Raucamp, Gerard J., 76
RAVAG tape recorder, 206, 287n152
Reeser, Hendrik Eduard, 178, 203, 204, 213, 215, 216, 225, 226, 257, 261, 294n426
Reger, Max, 65
Reinink, Hendrik Jan, 189, 285n83
research laboratory for the arts, 196, 197
reverberation; reverb, 10, 11, 14, 28, 29, 41, 42, 49, 51, 54–61, 69–71, 77, 86, 90, 97, 98, 104–107, 109, 110, 121–123, 127, 130, 131, 133–135, 141, 147–149, 151, 155, 158, 174, 175, 183, 198, 210, 212, 223, 236, 237, 239, 240, 242, 256, 263, 270n29, 273n144, 279n112
reverberation meter, 54
Reys, Rita, 80
Rheinisch-Westfälisches Institut für instrumentelle Mathematik, 253
RIAS Berlin, 249
ribbon microphones, 25, 47, 52
Ridder, Willem de, 230, 231
Riedl, Joseph Anton, 87
Rietveld, Jan, 197, 286n111
Righarts, Jan, 194, 195, 286n104; *Jan Klaassen*, 195, 286n104
Rijksakademie voor Beeldende Kunsten, 83
- ring modulator, 69, 131, 132, 175, 191, 208, 223, 263, 295n453
Rinia, Herre, 18, 62
Rode & Schwarz Abstimmbarer Anzeigeverstärker UBM, 263
Rodenko, Paul, 195
Room 306, 67, 72, 76–79, 81, 101, 102, 177, 284n24
Rowold, Bep, 80
Royal Conservatoire (The Hague, Netherlands), 13, 197, 235, 262–265, 286n116, 292n317, 295n452
Royal Dutch Shell Group, 193
Ruttman, Walter, 15; *Weekend*, 15
- Sala, Oskar, 61
Salle des Illusions, 239, 240, 292n329
Sargent, Malcolm, 106
Sartory, Karel, 104, 105
Schaeffer, Pierre, 7, 61, 97, 116, 179, 182, 186–188, 209, 234, 247, 248, 254, 293n357; *Symphonie pour un homme seul*, 247, 248, 293n357; *Orphée*, 53, 188, 247, 293n357
Schat, Peter, 87, 176, 178, 191, 192, 195, 204, 217, 230, 231, 262, 285n92, 288n204; *De Aleph*, 285n92; *Studie*, 217, 288n204
Scherchen, Hermann, 59, 60, 86, 116, 136, 153, 247, 250, 254, 276n253
Schierbeek, Bert, 197
Schoenberg, Arnold, 65, 115, 262, 274n193, 285n74
Schöffer, Nicholas, 83, 84, 144; projections spatio-dynamiques, 144; Spatiodynamic Tower, 83, 84, 144 Schouten, Jan Frederik, 21, 33
Schuitema, E. B. W., 118, 119, 278n65
Schütz, Heinz, 250, 251
Scriabine, Marina, 186
selective amplifier, 162, 163, 165
Serenata Nocturna, 73
serial composition; serial composition technique; serialism, 71, 88, 92, 186, 220, 229, 247, 253, 256, 257, 262
Siemens Oktavsieb filter, 199
Skymasters, the, 80, 81, 210, 211, 227, 287n164
Small Faces, 292n342
Société de Travail en Béton (Strabed), 126
Société Nationale des Architectes Français, 103
son et lumière, 111–114, 118, 120, 122, 144, 158, 271n88, 280n157
sound-projection, 49
South Pacific, 109
Spaens, Charles, 123, 142, 143
spatialization; spatiality, 14, 15, 131, 133, 134, 154, 155, 157, 158, 168, 187, 195, 197, 231, 289n219
Spek, Jaap, 197, 199, 200, 212, 214, 217, 230, 231, 234, 236–238, 240, 244, 254, 257, 264, 287n113, 291n280, 292n317, 294n427; *Impulsen*, 200, 217, 231, 234
Sputnik, 78
SSP, 261
Staatliche Hochschule für Musik Cologne, 249, 255
Staatliche Hochschule für Musik Stuttgart, 224
Stadsschouwburg Amsterdam, 71, 197, 286n110, 286n117
Stadsschouwburg Utrecht, 231
Stam, Henk, 173, 174, 176, 178, 182, 186, 188
Starink, Jan, 65
Stedelijk Museum Amsterdam, 105, 234, 243
Stehman, Jacques, 141

stereo; stereophonic; stereophony, 14, 28–33, 45–49, 51–54, 56, 70, 71, 77, 86, 91, 103–107, 109, 112, 113, 116, 122, 123, 131, 133, 147–149, 150, 151, 155, 156, 191, 221, 242, 270n44, 270n49, 278n46, 281n178, 284n35

Stichting Radio Nederland, 33, 77

Stockhausen, Karlheinz, 7, 12–14, 71, 72, 89, 117, 174, 179, 182–184, 186, 188, 205, 219, 220, 223, 224, 226, 236–238, 247, 250, 252–254, 264, 281n168, 283n7, 284n34, 285n74, 294n405, 295n453: "... wie die Zeit vergeht..." 238; *Gesang der Jünglinge*, 71, 179, 183, 186, 187, 220, 237, 252, 254; *Gruppen für drei Orchester*, 89; *Kontakte*, 237, 238, 244, 252–254, 281n168, 292n317; *Kontra-Punkte*, 285n74; *Mikrofonie I*, 264, 295n453; *Mikrofonie II*, 295n453; *Studie I*, 174, 283n7; *Studie II*, 182, 294n390

stokoponie; stokophonics, 43, 49, 53

Stokowski, Leopold, 14, 39, 40–51, 53, 55, 62, 106, 271n71, 271n83, 272n92, 272n125: *Music for All of Us*, 40–42, 49, 55

Stokowski installation, 43–45, 53

Story in the Rocks. See *Paleontologie*

Stotijn, Herman, 80

Strate, Grant, 91

Stratford Shakespearean Festival, 91

Stravinsky, Igor, 115, 271n83, 272n125, 285n74: *The Rite of Spring*, 271n83, 272n125; *Threni, id est Lamentatio Jeremiae*, 285n74

Strijbosch, Wim, 194

Strijp III; Strijp R, 102, 124, 130–132, 135, 145, 146, 148, 279n82, 279n105

Studio for Electro-Instrumental Music (STEIM), 192

Studio voor Elektronische Muziek (STEM), 12, 13, 99, 198, 209, 212–219, 223–226, 230–233, 235, 236, 243, 246, 247, 255–257, 260, 261, 263, 264, 274n197, 285n92, 286n125, 287n158, 291n282, 294n397, 294n426, 294n428, 295n435

Süddeutscher Rundfunk (SDR), 249

Südwestfunk (SWF), 90, 278n51

Symphonieorchester des Bayerischen Rundfunks, 116

synthetic sound, 33, 34, 65, 145, 174, 247

Tajiri, Shinkichi, 233, 234

Tak, Willem, 54, 107, 120–126, 130, 131, 133, 137, 141, 142, 144–147, 149, 155, 157, 158, 163, 166–168, 273n140, 280n125, 280n149, 281n195, 282n211

tape loop; tape loop recorder/player, 78, 79, 82, 83, 131, 208, 224

Tazelaar, Kees: *K12*, 289n239

Teatro alla Scala Milan, 14, 58, 105

Technische Hogeschool (TH) Delft, 18, 64, 65, 177–179, 188–192, 195, 198–201, 203, 204, 206, 222, 235–237, 241, 262, 263, 274n197, 287n129

Technische Universität Berlin, 186

Teer, Kees, 95, 96, 98, 274n175

Telcom, 44

Telefunken, 55, 59

Telefunken: loudspeaker columns, 90; M5 tape recorder, 191; M23 tape recorder, 206, 230; time delay unit, 60

Tempelaars, Stan, 261

ten Hacken, Huub. See Hacken, Huub ten

Termen, Lev, 271n80

Tharichen, Werner: *Musik auf Pauken*, 186

The Conquered Planet, 15, 74–76, 193, 283n16

The Cool Voice of Rita Reys No. 2, 80

The ELAgraph, 109

The Empire Builders, 197, 236

The Hague Philharmonic, 58, 80

The Haunted Castle, 73

The Long Christmas Dinner, 199, 204, 286n123

The Magic Music, 73

The Reality of Karel Appel, 218

The Ship of the Ether, 72

Theater Tuschinski, 25, 195

Théâtre des Champs-Élysées, 116

Théâtre Sarah-Bernhardt, 84

Theologisch Instituut, 261

theremin, 41, 115, 271n80

Todd-AO, 109

Tomasi, Henri, 47, 143, 144, 280n156, 280n157, 284n47

Tombe, J. H. des, 98, 201, 203, 204, 209, 213–218, 224, 225, 247, 255–257, 261, 294n426

Tomek, Otto, 253

tone gate, 199, 224, 237, 289n235

tone-operated gain-adjusting device (TOGAD), 42

Toneelgroep Studio, 197, 234, 236

Toneelwerkgroep Test, 14, 193–197, 220, 286n103, 286n104, 286n110

Tonographie H83B impulse generator, 263

Toonder, Marten, 72

Toonder Studios, 15, 73–75, 193, 275n221

transcription disc, 46

trautonium, 61, 180, 273n162

Trautwein, Friedrich, 61, 247, 250, 273n162

Treib, Marc, 11, 277n7, 280n150, 281n183: *Space Calculated in Seconds*, 11

Truax, Barry, 261

Tubbs, Ralph, 103

twelve-tone
composition/material/music/nonsense/piece/rows/
technique, 65, 81, 178, 198, 207, 210, 211, 227,
232, 249, 253, 262, 274n193, 284n27

Two Lovers, 22

Ulsen, Henk van, 193

Union Internationale de Radiodiffusion, 26

Unité d'Habitation Marseille, 84, 85, 115, 169

University of Adelaide, 224

University of Amsterdam, 179, 203–206, 232, 235

University of Bonn, 13, 253, 254, 257

Urk, Arend Thomas van, 18

Ussachevsky, Vladimir, 79, 80, 182, 232

Utrecht University, 98, 200, 201, 203–205, 207–209, 213, 216, 224, 226, 246, 257, 261, 294n428

Utrechts Conservatorium, 232, 262, 291n290

uviol, 121

van Baaren, Kees. See Baaren, Kees van

van Beinum, Eduard. See Beinum, Eduard van

van Bergeijk, Gilius. See Bergeijk, Gilius van

van de Weetering, Conrad. See Weetering, Conrad van de

van den Pauwert, Henri Eduard. See Pauwert, Henri Eduard van den

van der Kooy, Tymen. See Kooy, Tymen van der

van der Meulen, M. J. C. See Meulen, M. J. C. Van der

van der Meulen, John. See Meulen, John van der

van Dijk, Piet. See Dijk, Piet van

van Dongen, Theo. See Dongen, Theo van

van Doorn, Frans. See Doorn, Frans van

van Ginneken, Jaap. See Ginneken, Jaap van

van Hall, Marleen. See Hall, Marleen van

van Hemel, Oscar. See Hemel, Oscar van

van Iersel, Kees. See Iersel, Kees van

van Kuilenburg, Wim. See Kuilenburg, Wim van

van Ulsen, Henk. See Ulsen, Henk van

van Urk, Arend Thomas. See Urk, Arend Thomas van

van Vlijmen, Jan. See Vlijmen, Jan van

van Woerkom, Theo. See Woerkom, Theo van

Vancoppenolle, Paul, 164, 165, 282n212

Varèse, Edgard, 7, 9, 11, 35, 41, 49, 77, 88, 97, 99, 101, 102, 109, 111, 114–120, 124–127, 130–134, 136, 139–147, 149, 151–157, 159, 166–171, 183, 184, 186, 187, 190, 254, 271n80, 278n46, 278n65, 280n136, 281n162, 281n176, 282n202, 283n231, 285n74, 294n428: *Amériques*, 41; *Densité 21.5*, 119, 285n74; *Déserts*, 115–117, 119, 140, 147, 171, 184, 186, 187, 278n46; *Equatorial*, 41, 115, 271n80; *Espace*, 139; *Étude pour espace*, 139, 140, 145, 146, 280n127; *Hyperprism*, 41; *Intégrales*, 41, 119, 190; *Ionisation*, 119; *Octandre*, 119

Varèse, Louise, 142, 144, 145, 152, 280n145, 280n149, 281n175, 282n227, 283n231

Veemgebouw (Philips), 107

Vereeniging van Arbeiders Radio Amateurs (VARA); Omroepvereniging VARA, 54, 72, 82, 222, 275n208

Vermaak, Elbert, 176

Vermeulen, Roelof, 10–12, 14, 18, 21–23, 25, 36–41, 43–56, 59–63, 66, 67, 70, 71, 76–81, 86–90, 95–99, 101–107, 122, 124, 131, 152, 174–182, 187, 192, 200, 206, 209, 212–215, 217, 218, 220, 230, 232, 236, 238, 242, 271n64, 272n115, 272n120, 273n165, 276n253, 277n3, 286n103, 288n198

Vermeulen, Joke, 86

Verschoor, W., 236, 237, 241, 263

Verwey, Evert, 18

Vesseur, Wim, 197

Vian, Boris, 197, 236

Vink, Jaap, 206, 207, 222, 223, 287n150, 287n158

Vitaphone, 22, 23

Vlijmen, Jan van, 178, 192, 257, 262, 265, 295n444

Von Karajan, Herbert. See Karajan, Herbert von

VOSIM, 261

Vries, Frank de, 257, 261, 263

Vrijman, Jan, 218

Wandel & Goltermann third-octave filter, 67, 69, 76, 131, 132

Wansdronk, Cees, 63

Warner Bros., 22

Webern, Anton, 97, 179, 285n74

Weetering, Conrad van de, 198, 286n117

Weiland, Frits, 209, 217, 218, 226, 287n158

Wen-chung, Chou, 140, 141, 282n202

Westdeutscher Rundfunk (WDR), 71, 183, 184, 186, 237, 253–255, 264

Western Electric, 22

Wever, Peter, 162, 280n159, 282n212

Wiegiersma, Hendrik, 105

Wiener Radiowerke AG (WIRAG), 144, 287n152

Wiener Sängerknaben, 144

Wijdeveld, Wolfgang, 232

Wilde, Oscar, 249

Wilder, Thornton, 199

Wisse, Jan, 262, 276n257

Woerkom, Theo van, 66, 226

Wolf, Christian, 285n74

World Wide Pictures, 94

Wylam, Ric, 94

Xenakis, Iannis, 7, 11, 87, 101, 115–121, 125, 126, 130, 134, 136–138, 141–143, 153–159, 166, 167, 169, 186–188, 226, 276n251, 281n185, 281n195: *Analogique B*, 87; *Concret PH*, 153, 281n178; *Diamorphoses*, 186, 188; *Interlude sonore*, 153–156, 167, 169; *Metastaseis*, 116; *Pithoprakta*, 116

Yeats, William Butler, 65, 286n102

Zaalberg van Zelst, J. J., 214

Zadkine, Osip, 103, 105, 106, 116: *La ville détruite*, 105

Zeilen, 218

Zielstra, Jan, 274n203

Zimmermann, Bernd Alois, 255: *Perspektiven*, 255

Zupko, Ramon, 289n238, 289n239: *Transients*, 289n239