Index

Α

Academia, 245-263 case study (What's Wrong Here?), 247-250 creativity and dysfunction in, 245-247 difficulties between academic and private sector research, 265-267 exercises and experiments, 262-263 mentors: experiments with new behaviors, 262 The 95% rule, 263 trainees: experiments with new behaviors, 262-263 funding, 246-247, 250 mentors, 251-253 behavior impact on trainees, 251-252, 255-256, 257 evaluating interactions with trainee, 262 focus on process, not just content by, 252 improving skills as, 251-253 managerial deficits of, 253-254 passive or absent, 258-259 pressures and deadlines, 256-257 trainee choice of, 253 trainee interactions, 253-260, 262 politics in, 253 reward system, 246-247 trainees assessing quality of mentor's decisions, 254-255 communication with mentor, 257-258 evaluating interactions with mentor, 262-263 impact of mentor behavior, 251-252, 255-256, 257 needs different from mentor's, 257 passive or absent mentor, 258-259 perpetual cycle of academic training, 253 support for, 259-260 surviving in academia, 253-261 Accusation, 137, 183, 208, 225-226 Action items, 168 Adaptive versus technical problems, 300-306 case study, 301-303 examples, 304-305 questions to ask, 304 Adler, Lou, 66-67 Advertisement, position, 71 Advice, 145-146, 255

Advisor/advisee compact, 133, 151-154 Affective conflict, 190 Affective generalization, 189-190 Agenda, meeting, 167-168, 199 Agree, Empathize, Inquire, or Assure technique for angry boss, 208-210, 213 for angry peers, 229 for argumentative people, 234 for critical or judgmental people, 231 for procrastinators, 232-233 for pushy or demanding people, 231 Agreeing to deal with argumentative people, 234 to deal with critical or judgmental people, 231 to deal with procrastinators, 232-233 to deal with pushy or demanding people, 231 to defuse anger or frustration, 208, 213, 229 while receiving feedback, 215 Agreement, checking for, 327 A.K. Rice Institute for the Study of Social Systems, 345 Ambiguity, managing, 311 American Group Psychotherapy Association, 345 Americans with Disabilities Act, 76 Anderson, Sharon, 166 Anger body language and, 54 of boss, dealing with, 205-209, 217 defusing, 58, 208, 230, 234, 326 feedback and, 140, 215 of peers, dealing with, 227-230 self-awareness of, 26-28 word list, 30 Antagonism, 281-282, 284 Anxiety, 24 body language and, 53-54 of graduate students, 130 Apologizing for what you did, not for how they feel, 230 when dealing with angry people, 229-230 Appropriateness of reactions, 24-25 Arguing, discussing science without, 235-237 Argumentative people, dealing with, 234 Arrogance, 7 Aspirational goals, 134 Assertiveness, 103, 109-110

348 / Index

Assure

to deal with argumentative people, 234 to deal with critical or judgmental people, 231 to deal with procrastinators, 233 to deal with pushy or demanding people, 231 to show your commitment, 209, 327 when dealing with angry peer, 229 At the Helm: Leading Your Laboratory (Barker), 251, 343 Attack reaction, 25, 33 Attendance problems, 103 Authority handling feedback from, 214-216 leadership distinct from, 303 reactions to, 201-203, 207 Authorship on scientific papers, 48-50 Autonomy assessing candidate's skills in, 86 in private sector, 265-266, 273 Avery, Christopher, 115 AVID approach, 175-177, 179-180 Awareness. See Self-awareness

В

Bay of Pigs invasion of Cuba, 184 Behave. The Biology of Humans at our Best and Worst (Sapolsky), 5 Behavioral polarities, identifying, 32-33 Behavioral rules, 25, 170, 230, 255 Behavioral themes, 15-16 Behavioral traits, consequences of, 7-8 Benacerraf, Baruj, 204 Benfari, Robert, 2-4 Bias, 64-67 confirmation, 182-183 shared, 183 Big picture, helping team to see, 115-116 Blame, assignment of, 26 Body language, 53-54, 310, 327 of audience to presentation, 276 in meetings, 178, 185 paying attention to your own, 237-238, 240-241 Booster, boss as, 204 Boss, managing your, 201-219 angry boss, 205-207, 217 authority, your reaction to, 201-203, 207 boss traps, 204-205, 219 case studies Ignoring Your Boss, 202–203 Speaking Different Languages, 211-214 When Your Future Is on the Line, 206-207 cultural influences, 203-204 disagreeing with your boss, 217-218 exercises and experiments, 217-219 angry boss, working with, 217 boss traps, 219 criticizing your boss, 218

disagreeing with your boss, 217-218 misattribution of boss's behavior, 217 pattern recognition: your interactions with authority, 217 perspective of your boss, 218-219 thinking before you speak, 218 understanding your boss's needs, 218 feedback, handling, 214-216 misattribution of behavior, 217 nonscientist boss, 211-214 tools/tactics for dealing with your boss, 207-211 cognizant of your role and responsibility, 210-211 identify underlying interests, 209-210 manage anger or frustration, 208-209 understanding your boss's needs, 218 Boss traps, 204-205, 219 Boundary issues, 204 Bridges, building, 282 Bullying, 103, 247 Burns, David, 208

С

Career development plans, 129 Case studies academia What's Wrong Here?, 247-250 future of science and technology, shaping Rewriting History, 322-324 Rewriting History (revised version), 324-329 industry The Pet Project, 277-281 Terminated, 267-268 leaders/leadership Damitol Pharmaceuticals, 301-304 Getting a Word In, 289 Junior or Senior?, 291-292 Motivated or Demotivated?, 299-300 managing scientists Ignoring Conflict, 104-106 Technical Turf Wars, 111-113 managing your boss Ignoring Your Boss, 202-203 Speaking Different Languages, 211-214 When Your Future Is on the Line, 206-207 negotiation Don't Take the Bait, 55-56 First Authorship, 48-50 Hot Buttons, 52-53 Making Friends with the Food and Drug Administration, 51-52 peers Declaring Success, 224-225 Talk About It, 222-224 Think Before You Speak, 228-230 self-awareness, 18-20, 24, 26-27 The Angry Scientist, 26-27 The Clueless Systems Analyst, 19-20

Index / 349

Left Out, 18-19 Zombie Anxiety, 19-20 team meetings Contaminated, 181-182 The National Institute of Biology, 196-198 The Power of Silence in Groups, 186-187 transforming science organization, 330-337 Cell phone use, 103, 109, 199 The Citizen's Handbook (Dobson), 166 Clarity of focus, vision, and expectations, 291 Coaching, 93-94 Cognitive conflict, 190 Cohen, Phoebe A., 171 Cold Spring Harbor Laboratory courses and workshops, 345 Collaboration, lab culture and, 122-123 Collective intelligence, 180 Combined Postdoc Individual Development Plan and Performance Review, 143, 155-161 form, 157-161 goals, 155-156 mentor responsibility, 157 postdoctoral fellow responsibility, 156 Commitment, showing, 209 Commitments, asking for specific, 232, 233, 327 Committee interviewing, 97-98 Communication by effective leaders, 290, 314-316 between mentor and trainee, 257-258 in private sector organizations, 276, 282, 284 problems, 301 selective, 204 Compact between Postdoctoral Trainee and Mentor, 151-154 Complainers, 233 Complaints, 103, 108 Computers, inappropriate use of, 103, 110 Confidence, expressed by leaders, 300 Confirmation bias, 182-183 Conflict affective, 190 assessing candidate's skills in management of, 85-86,94 aversion to, 188 avoidance case studies, 222-225 key elements of, 223-225 by mentors, 294-295 cognitive, 190 declaring successful resolution of problem before it is actually resolved, 224-225 ignoring in a team, 102-106 interpretation as unhealthy, 8 leader recognition of, 294-295 managing team meetings, 188-192 centrality of managed conflict, 188 self-awareness, 189 temperature of the discussion, 189-192

with peers difficult people, dealing with, 227-234 discussing science without arguing, 235-237 hidden conflicts, 242-243 tools for dealing with, 225-227 recognizing among others, 125 recognizing between yourself and others, 125 technical turf wars, 110-113 tools for dealing with, 225-227 avoid accusations, 225-226 "I" versus "you" approach, 226 recognizing warning signs, 225 separate the problem from the person, 226-227 Confrontation reluctance to confront, 21 with your boss, 205 Connect (Hallowell), 116 Consequences of behaviors, 7-10, 232-233 Context, providing, 297-298, 314 Corporate culture shock, 267-268 Credibility, scientific, 112 Crick, Francis, 329-330 Critical people, dealing with, 231 Criticism discussing science without arguing, 235-237 focusing on problems, not the person, 169-171 modeling appropriate behavior in meetings, 170 in private sector, 271, 281 sensitivity to, 170-171 of your boss, 218 The Cult of Personality: How Personality Tests Are Leading Us to Miseducate Our Children, Mismanage Our Companies, and Misunderstand Ourselves (Paul), 4 Cultural influences, in dealing with your boss, 203-204 Culture. See also Lab culture building positive, 290 differences within an organization, 315-316 industry culture shock, 267-268 of organizations, 282 stereotypes of organizational domains, 277

D

Dana, Jason, 66–67 Davis, Geoff, 130–132 de Botton, Alain, 35–36 Deadlines, managing to, 94 Dealing with People You Can't Stand: How to Bring Out the Best in People at Their Worst (Brinkman and Kirschner), 235, 343 Decision fatigue, 168 Decision-making scheme, 171–175 closure, 174–175 frame the meeting, 171–172 generate ideas, 172–173 home in, 173–174 Defensive behavior, 137, 183, 235, 248, 336

350 / Index

Delegation, 118-120 guidelines, 119 ideas to overcome difficulty with, 119-120 leadership and, 311 Demanding people, dealing with, 231 Demotivation, 299-300 Denial of conflict, 225 Denial of problem, 232, 336 Depression, 130 Developing Managerial Skills in Engineers and Scientists: Succeeding as a Technical Manager (Badawy), 343 Devils advocate, 183 Dichotomous reactions to different situations, 25-26 Difficult people, dealing with, 227-234 angry or hostile, 227-230 argumentative, 234 complainers, 233 critical or judgmental, 231 needy, 234 passive-aggressive, 231-232 procrastinators, 232-233 pushy or demanding, 231 Diminishers, 300 Discomfort body language and, 237-238, 241 with boss's behaviors, 204 boundary issues, 204 cognitive conflict, 190 with feedback, 138 in meetings, 185-188 Discussing science without arguing, 235-237 Displacement, 184-185 Dobson, Charles, 166 Documentation, of performance issues, 147, 148 Dominance, 7 Domination of meetings, dealing with, 198 Domineering individuals, 19 Duhigg, Charles, 180-181

Е

Economic factors, that affect your company, 269-270 Effective Meetings, The Complete Guide (Burleson), 166 Emotional awareness, 308 Emotional hijacking, 52-53 Emotional intelligence, 17 Emotional Intelligence (Goleman), 17, 343, 346 Emotional reliability, 289-290 Emotions, assessing candidate's ability to manage, 84-85 Empathy for boss's anger or frustration, 208, 213 to deal with argumentative people, 234 to deal with complainers, 233 to deal with critical or judgmental people, 231 to deal with procrastinators, 232-233 to deal with pushy or demanding people, 231 defusing anger with, 208, 213, 229-230, 326

by leaders, 285, 289, 299-300, 306-308 negotiation and, 56-58 for peer's anger or frustration, 229-230 psychological safety and, 181 to start a dialogue, 208, 234 Employee assistance program (EAP) specialists, 234 Encouragement, from leaders, 290, 299, 308, 311 Enthusiasm, 290, 298, 302, 308 Entrepreneurship, in academia, 246-247 Environment correlations with productivity, 131-132 lab culture and, 123-124 safe for innovative thinking, 311 Ethnicity, recognizing and acknowledging attitudes toward, 337-338 European Miolecular Biology Organization (EMBO) Lab Management workshops and courses, 345 Evaluation and reward system, corporate, 271-272 Events, creating extra-scientific, 123-124 Exclusion, reaction to, 18, 23-24 Excuses, 336 Exercises and experiments academia, 262-263 mentors: experiments with new behaviors, 262 The 95% rule, 263 trainees: experiments with new behaviors, 262-263 identifying potential leaders, 341-342 industry silo thinking, counteracting, 284 silo thinking, identifying, 284 leaders leadership characteristics: self-evaluation checklist, 317-319 managing scientists, 125-126 attacking the problem, not the person, 125-126 recognizing conflict among others, 125 recognizing conflict between yourself and others, 125 managing your boss, 217-219 angry boss, working with, 217 boss traps, 219 criticizing your boss, 218 disagreeing with your boss, 217-218 misattribution of boss's behavior, 217 pattern recognition: your interactions with authority, 217 perspective of your boss, 218-219 thinking before you speak, 218 understanding your boss's needs, 218 negotiation, 60-62 correcting negative listening patterns, 62 identifying negative listening patterns in yourself, 62 identifying underlying interests, 61-62 right tools for each negotiation, 60-61 peers, 240-243 body language, yours, 240-241 body language of others, 241

Index / 351

focus on problem, not the person, 241-242 hidden peer conflicts, 242-243 personality identifying themes, 15-16 self-assessment: dealing with others, 15 self-assessment: who you are, 13-14 self-awareness, 29-33 behavioral polarities, 32-33 hot buttons, 32 noticing your feelings, 29-31 noticing your sensations, 31 noticing your thoughts, 29 reflecting on your self-awareness data, 31-32 team meetings case study, 196-198 example meeting scenarios, 199 helping others participate, 198 people who dominate meeting, dealing with, 198-199 using silence, 198 Expanding the pie, 47-50 Expectations clarity of, 291 of team members, unawareness of, 8 of your organization, 296 External events, interpreter of, 116 Externalization reaction, 26, 33 Eye contact, 230, 237, 240

F

Face-to-face interview, 66-67, 76-87 conducting, 77-87 first with Principal Investigator, 77 parameters assessed, 77-87 background and skills verification, 78 "fit" with the group, 87 managerial skills, 86 personal attributes, 80-82, 84-86 position-specific skills verification, 87 preparation, 79 red flags, 87 seminar, 79-80 strongest characteristics, 87 scoresheet, 77 second with Principal Investigator, 89-90 Facial expressions, 235, 237-238, 252 Faculty, hiring, 93-97 Failure, learning from, 313-314 Faking (negative listening pattern), 57, 62 Fear word list, 30 Feedback, 136-142, 273. See also Performance reviews alternative behaviors, soliciting/suggesting, 139 aversion to, 137 candidate's ability to hear and respond to, 81-82 definition, 133 effective, 137, 141-142 focusing on problems, not the person, 169-171

framed in terms of improvement rather than as criticism, 137 to future leaders, 336 goals and, 134 handling, 214-216 to improve performance, 134, 137-138, 140 ineffective, 141-142 leader receptivity to, 290-291 from leaders, 290, 296 from mentors, 251 positive, 138 in public or private, 140 script for conversation, 138-140 situational, 144 timing of, 140 tools for taking advantage of, 215 Feedback golden rule, 137, 142 The Feeling Good Handbook (Burns), 208, 343 Feeling words, 23 Feelings anticipating effect on behavior, 23-24 emotional hijacking, 52-53 hot buttons, 32 knowing what you are feeling, 22-23 naming, 29-31 noticing, 29-31 Feldman, Daniel, 194 The Fifth Discipline (Senge), 27-28 Fine, Eve, 65 Firing, 148-149 First authorship on scientific papers, 48-50 Fisher, Roger, 37 "Fit" with the group, ability of candidate to, 87 Fitzgerald, F. Scott, 306 Five Constraints on Predicting Behavior (Kagan), 5 Focus on people, 332-337 Food, as motivator, 123 Framing the meeting, 171-172 Franklin, Rosalind, 329-330 Free-associating (negative listening pattern), 57, 62 Frustration, 191 of boss, dealing with, 208-209 empathy with, 299 with employee performance, 149 feedback and, 140 over project termination, 268 with passive-aggressive people, 232 silo thinking and, 279 Fundamental attribution error, 55, 230 Funding, in academia, 246-247, 250 Future of science and technology, shaping, 321-342 attitudes toward gender, race, ethnicity, and minority status, 337-338 case study Rewriting History, 322-324 Rewriting History (revised version), 324-329 focusing on people, 332-337 hiring the right people, 332-334

352 / Index

Future of science and technology, shaping, (*Continued*) identifying potential leaders, 341–342 training employees that you hire, 334–335 transforming science organization, 330–337

G

Gathering ammunition (negative listening pattern), 57.62 Gender, recognizing and acknowledging attitudes toward, 337-338 Generalization, affective, 189-190 Getting Past No: Negotiating Your Way from Confrontation to Cooperation (Ury), 37, 38, 40, 60.343 Getting to Yes (Fisher and Ury), 37 Get-togethers, 123-124 Glen, Paul, 117, 299 Goals aspirational, 134 changing, 134 higher goals and mission of organization, 297 matching to the person, 135-136 operational, 134, 135 performance review and, 142-144, 155-161 in private sector, 272 setting, 133-136 smart, 135, 162 Goleman, Daniel, 17, 52 Good faith, negotiating in, 39 Google, 180-181, 292-293 Graduate STEM Education in the 21st Century (Leshner and Scherer), 147, 330 Graduate students, anxiety and depression in, 130 Grant, Adam, 66, 78 Grants, research, 246-247 Group behaviors, 182-188 Group collective intelligence, 180 Group effectiveness, 180-181 Groupthink, 165, 184 "Gut feelings," in hiring process, 63-64, 67, 87

Н

Hackman, J.R., 122 Hallowell, Edward, 116–117 Handelsman, Jo, 65 Happiness word list, 30 Hasty decisions, 231 Heifetz, Ronald, 117 Help, ability to ask for, 85 Help-rejecting complainers, 233 Hidden agendas, 8 Higher meaning, 297 *Hire with Your Head* (Adler), 66–67 Hiring, 63–100 asking candidates for anecdotes or stories about previous jobs, 334

biases, 64-67 candidate summary and scoring, 98 candidate visit schedule, 76-77 customizing of process, 99 data-driven analysis and, 65-66 evaluating existing organization members, 333-334 flowsheet, 69 "gut feelings" and, 63-64, 67, 87 interview committee interviewing, 97-98 face-to-face, 66-67, 76-87 management candidate, 93-97 perils of interviewing, 66-67 phone, 72-75 questions not to ask, 75-76 by managers, 94 managers and faculty, 93-97 opportunity to sell candidate on position, 89-90 people involved in, 67-69 human resources, 68 team, 68 you as leader, 68-69 phone reference checks, 90-93 position advertisement (posting), 71 position description, 70-71 qualifications of candidates, 332-333 résumés, reviewing, 71-72 right people, 332-334 scoresheets, 70 candidate phone interview, 74 candidate phone interview guide, 74 candidate summary, 98 face-to-face interview, 77 face-to-face interview guide, 82-84 management candidate interview, 95 management candidate interview guide, 96-97 reference phone interview, 90-91 reference phone interview guide, 91-92 résumé, 72 team member's, 88 team members, input from, 68, 88 training employees that you hire, 334-335 Hostility, 7 dealing with hostile people, 227-230 defusing, 58 discussing science without arguing, 235-237 negotiating in face of, 282 in technical turf wars, 111-112 Hot buttons, 32 awareness of yours, 230, 310 managing, 53 negotiations and, 52-53 How to Make Meetings Work (Doyle and Straus), 166 How to Manage the R&D Staff: A Looking Glass World (Tingstad), 344 Human resources culture stereotypes of, 277 helping managers to find solutions to problems, 110

Index / 353

in hiring process, 68 performance issues and, 148–149 performance management and, 131 *The Human Side of Managing Technological Innovation: A Collection of Readings* (Katz), 344 Humor, to decrease temperature of discussion, 191–192 Hygiene habits, problems with, 103, 108–109

I

"I" statements, 47, 226-227, 257, 336 "I" versus "you" approach, 226, 257 Ideas generating in meetings, 172-173 soliciting active, 194 Ignoring your boss, 202-203 Independent thinking, assessing candidate's skills in, 86 Indispensable individuals, handling seemingly, 19-21 Individual development plans (IDPs), 131, 143, 146-147, 155-161, 251 Individual recognition in a team-based project, 113-114 Industry, 265-284 case studies The Pet Project, 277-281 Terminated, 267-268 culture shock, 267-268 differences between academic and private sector research, 265-267 exercises and experiments silo thinking, counteracting, 284 silo thinking, identifying, 284 external factors affecting company, 269-270 organizational domains and cultural stereotypes, 277 silo thinking, 276-283, 284 case study, 277-281 counteracting, 282-283, 284 identifying, 281, 284 transition to, 265-284 evaluation and reward system, understanding, 271 - 272good solution versus best solution, 274-275 learn to give up projects, 270-271 market and economic factors, effect of, 269-270 mission of the company, 269 presenting your work, 275-276 profitable science, 269 project ownership, 271, 272 recognition for actions that support group, 273 - 274role of manager in, 283 team member, learning how to be, 272-273 Inferiority, feelings of, 238-239 Inflammatory comments, avoiding responding to, 36 Input, openness to, 194 Inquire to deal with argumentative people, 234 to deal with critical or judgmental people, 231

to deal with procrastinators, 233 to deal with pushy or demanding people, 231 to show your commitment, 209, 213 when dealing with angry peer, 229 Insecurity, feelings of, 24 Insensitivity, 7 Inspiration, 286, 288, 296, 298-299, 308 Instability, of organizations, 116 Insults, reaction to, 54-56 Integrity, 288, 290 Intellectualizing (negative listening pattern), 57, 62 Interactions lab culture and, 122-123 rules for team meeting, 169 Interests example problem positions and underlying interests, 42 - 46identifying those to be satisfied, 40 identifying underlying when dealing with angry person, 209-210 options for satisfying, 40, 50 positions distinguished from, 42 underlying, 40, 50, 61-62, 209-210, 213-214 Interim solutions, 231 Internal events, interpreter of, 115-116 Internalization reaction, 26, 33 Interpersonal conflict/problems in academic research case study, 247-250 manpower, resources, and time wasted because of, 10 unawareness of, 7 Interpersonal skills, identifying future leaders with, 336-337, 339-340 Interrupting (negative listening pattern), 57, 62 Interrupting speakers, 103, 109-110 Interruptions AVID approach to managing, 175-176 evaluating solutions during brainstorming, 177 Interview committee interviewing, 97-98 face-to-face, 66-67, 76-87 management candidate, 93-97 perils of interviewing, 66-67 phone, 72-75 questions not to ask, 75-76 situational (behavior-based), 80, 81 unstructured, 66-67 Intrinsic motivation, 253, 298-300 Introversion, 7

J

Judgmental, avoidance of being, 232, 233 Judgmental people, dealing with, 231

Κ

Kagan, Jerome, 5 Kalish, Doug, 275

354 / Index

Kennedy, Danielle, 288 Khan, Zia, 208, 286 Knee-jerk reactions, 211

L

Lab culture, 120-124 environment, 123-124 relationships and interactions, 122-123 science, 121 Lab technicians, performance reviews for, 145 Leader-dominated discussion, overcoming tendency toward, 194 Leaders, 285-319. See also Managing scientists; Teams adaptive versus technical problems and, 300-306 authority distinct from leadership, 303 case studies Damitol Pharmaceuticals, 301-304 Getting a Word In, 289 Junior or Senior?, 291-292 Motivated or Demotivated?, 299-300 characteristics of effective, 288-300 communicative, enthusiastic, optimistic, 290 conflict, recognizing and dealing with, 294-295 consistent management style, 290 empathy and emotional reliability, 289-290 essential characteristics of scientific team leaders, 309-316 examples, 309-316 feedback receptivity, 290-291 focus, vision and expectation, 291 Google's list of, 292-293 meaning and context, providing, 297-298, 314 motivation, 298-300 personal, 288-290 positive culture and values, builder of, 290 professional, 290-292 scientific expertise, 291-292 self-evaluation checklist, 317-319 what your organization needs from you, 296-297 creative deployment of the self, 308 identifying and mentoring future, 335-337 as interpreter of external events, 116 as interpreter of internal events, 115-116 leadership as a role, 306-308 leadership characteristics: self-evaluation checklist, 317-319 meanings of leadership, multiple, 308 mentors for, 309 misreading of events within teams by, 6 modeling behavior, 118, 310 multipliers and diminishers, 300 role in team meetings, 164-166, 192-194 of science or of people, 286-288 team meetings and, 163-199 Leaders, the Strategies for Taking Charge (Bennis and Nanus), 285

Leadership without Easy Answers (Heifetz), 117, 285, 344 Leading Geeks: How To Manage and Lead People Who Deliver Technology (Glen), 117, 299, 344 Lewis, Michael, 65–66 Listening and acknowledging the other side, 56–58 failure to listen, 8 negative listening patterns, 57, 62 Lynn, Adele, 57

Μ

Making the Right Moves: A Practical Guide to Scientific Management for Postdocs and New Faculty, 260, 344 Management style, consistent, 290 Management training, 11, 102 Managerial skills, assessing candidate's, 86 Managers, elements desired in, 93-95 coaching and mentoring, 93-94 discipline and letting go, 95 failure and disappointment, handling, 95 hiring, 94 managing performance, 94 managing silos, 95 managing to a deadline, 94 managing uncertainty, 94-95 managing up, 94 negotiation and conflict management, 94 Managers, hiring, 93-97 Managing scientists, 101-126 balancing task ownership with team participation, 114 big picture, helping team to see, 115-116 case studies Ignoring Conflict, 104-106 Technical Turf Wars, 111-113 challenges and opportunities, 102-124 creating effective teams, 114-115 delegation, 118-120 exercises and experiments, 125-126 attacking the problem, not the person, 125-126 recognizing conflict among others, 125 recognizing conflict between yourself and others, 125 focusing on problem, not the person, 106-110, 125-126 ignoring problems and conflict, 102-106 individual recognition in a team-based project, 113-114 lab culture, 120-124 environment, 123-124 relationships and interactions, 122-123 science, 121 leaders (see also Leaders) essential characteristics of, 309-316 as interpreter of external events, 116 as interpreter of internal events, 115-116

Index / 355

modeling behavior, 118 technical turf wars, 110-113 uncertainty, helping team to manage, 116-118 Managing Scientists: Leadership Strategies in Scientific Research (Sapienza), 344 Managing up, 94 Manipulation by boss, 204 feelings in industry setting, 265 by mentor, 257 negotiations and, 36, 37 Marginalization, feelings of, 21, 24, 28, 238, 273, 279 Market factors, that affect your company, 269-270 Meaning, providing, 297-298, 314 Meeting Skills for Leaders: Make Meetings More Productive (Haynes), 166 Meetings. See Team meetings Mentors, 129 in academia, 251-253 behavior impact on trainees, 251-252, 255-256, 257 evaluating interactions with trainee, 262 focus on process, not just content by, 252 improving skills as, 251-253 managerial deficits of, 253-254 passive or absent, 258-259 pressures and deadlines of, 256-257 trainee choice of, 253 trainee interactions, 253-260, 262 advice from, 146, 255 Combined Postdoc Individual Development Plan and Performance Review, 143, 155-161 Compact between Postdoctoral Trainee and Mentor, 151-154 conflict avoidance, 294-295 feedback from, 251 for future leaders, 335-337 for leaders, 309 motivation from, 299 potential managers ability as, 93-94 role as leader in conflict with role as mentor, 308 Micromanagement, 290, 292, 311 Minority status, recognizing and acknowledging attitudes toward, 337-338 Minutes, meeting, 168 Mission of the company, 269, 297, 306-307 Mission statement, 269 MIT Postdoctoral Life Survey, 127-130 Modeling behavior, 118, 310 Moneyball (Lewis), 65-66 Monopolizers, 179-180, 198-199 Motivation in academic research, 246-247, 253 case study, 299-300 intrinsic, 253, 298-300 by leaders, 298-300 of mentor, 257 Multipliers, 300

Myers-Briggs Type Indicator (MBTI) inventory, 2–5 Myths of scientific research, 335

Ν

National Science Foundation, 129 National Training Labs, 346 Naysayers, 177 Needy people, dealing with, 234 Negative listening patterns, 57, 62 Negotiation, 35-62 alternatives to, 41 appropriateness of, 38-39 body language, 53-54 case studies Don't Take the Bait, 55-56 First Authorship, 48-50 Hot Buttons, 52-53 Making Friends with Food and Drug Administration, 51-52 defusing anger and hostility, 58 empathy, 56-58 exercises and experiments, 60-62 correcting negative listening patterns, 62 identifying negative listening patterns in yourself, 62 identifying underlying interests, 61-62 right tools for each negotiation, 60-61 expanding the pie, 47-50 in good faith, 39 guidelines, 60-61 hot buttons and, 52-53 "I" statement use in, 47 in industry setting, 282-283 with interests not positions, 42-46 manager's skills in, 94 open-ended questions, 50-52 outcomes, identifying possible, 41 preparing for, 40-58 alternatives to negotiation, 41 components of, 40-41 define aspirations and limits, 41 identifying interests underlying negotiations, 40 identifying options for satisfying, 40 principled elements of, 38 reasons to learn, 37 underlying assumptions in, 38 what to remember concerning, 58 reasons to learn, 35-37 stalled, 50-52 taking things personally, avoidance of, 54-56 training negotiating skills, 339-340 what it teaches you, 37 95% rule, The, 263, 328 Nonparticipation in meetings, 177-178, 198 Nonscientist boss, 211-214 Nonverbal communication by body language, 53-54 Nonverbal reaction, 25-26, 33

356 / Index

0

Off-topic discussions, 175–176 On Becoming a Leader (Bennis), 285 Open concept work spaces, 123 Open-ended questions, 50–52 Operational goals, 134, 135 Optimism, 290 Options for mutual gain, 50 Organization needs, from leaders, 296–297 Organizational Culture and Leadership (Schein), 280, 344

Ρ

Participation balancing task ownership with team participation, 114 encouraging in meetings, 177-178, 198 helping others to participate, 198 Passive-aggressive people, dealing with, 231-232 Paul, Annie Murphy, 4 Peers, 221-243 body language, 237-238, 240-241 case studies Declaring Success, 224-225 Talk About It, 222-224 Think Before You Speak, 228-230 conflict, tools for dealing with, 225-227 avoid accusations, 225-226 "I" versus "you" approach, 226 recognizing warning signs, 225 separate the problem from the person, 226-227 conflict avoidance case studies, 222-225 key elements of, 223-225 consequences of feeling inferior/superior to, 238-239 difficult people, dealing with, 227-234 angry or hostile, 227-230 argumentative, 234 complainers, 233 critical or judgmental, 231 needy, 234 passive-aggressive, 231-232 procrastinators, 232-233 pushy or demanding, 231 discussing science without arguing, 235-237 exercises and experiments, 240-243 body language, yours, 240-241 body language of others, 241 focus on problem, not the person, 241-242 hidden peer conflicts, 242-243 trainee support from, 260 Peer-to-peer coaching, 123 Perfectionists, 232 Performance managing, 94 sharing and collaboration, effect of, 123 Performance improvement program (PIP), 147, 148 Performance indicators, 145

Performance issues, 147-149 documentation of, 147, 148 illustration of typical process for dealing with, 148, 149 institution's policies on, 148-149 separating an employee, 148, 149 timelines for improvement, 148 Performance management advice, 145-146 Combined Postdoc Individual Development Plan and Performance Review, 143, 155-161 form, 157-161 goals, 155-156 mentor responsibility, 157 postdoctoral fellow responsibility, 156 Compact between Postdoctoral Trainee and Mentor, 151 - 154elements of, 133 employee performance issues, 147-149 feedback, 136-142 goals aspirational, 134 matching to the person, 135-136 operational, 134, 135 setting, 133-136 smart, 135, 162 individual development plans (IDPs), 131, 146-147 laying groundwork for, 132-133 new trainee, things to do upon arrival of, 149-150 performance review, 142-145 focus of, 142 for postdocs, 128-132 for technical and support personnel, 145 Performance measures, in private sector, 272 Performance problems, 103 example of conversation concerning, 107-108 focus on problem, not the person, 106 Performance reviews, 142-145 Combined Postdoc Individual Development Plan and, 143, 155–161 definition, 133 flow chart of conversation, 143-144 focus of, 142 frequency of, 144 for postdocs, 128-132 for technical and support personnel, 145 Personal attributes, assessing candidate's, 80-82, 84-86 ability to hear and use feedback, 81-82 ability to manage emotions, 84-85 conflict management, 85-86 independent thinking/autonomy, 86 past and present categories, 81-82 problem solving and accessing help, 85 team mind-set, 85 Personal hygiene habits, problems with, 103, 108-109 Personal problems, of needy people, 234 Personality, 1-16 consequences of traits, 6-11

Index / 357

dealing with daily interactions and, 9-10 eminence and creativity affect on, 5-6 exercises and experiments, 13-16 identifying themes, 15-16 self-assessment: dealing with others, 15 self-assessment: who you are, 13-14 Myers-Briggs Type Indicator (MBTI) inventory, 2-5 nonscientists and scientists compared, 5 research on scientists, 5-6 scientists as psychologically flexible and quick learners, 11 - 12stereotypes of scientists, 1, 2 why you should pay attention to yours, 6-11 Perspective, your boss's, 218-219 Phone interview topics, 72-75 communications skills, 73 managerial and supervisory skills, 73 position-specific questions, 73-74 preparation of candidate, 73 red flags, 73 technical skills and background, 73 Phone reference checks, 90-93 PIP (performance improvement program), 147, 148 Playing favorites, by your boss, 204 Plous, Scott, 181 Polarities, identifying behavioral, 32-33 Position advertisement (posting), 71 Position description, 70-71 Positions example problem positions and underlying interests, 42 - 46interests distinguished from, 42 as proxies for complex underlying interests, 46 Postdocs Combined Postdoc Individual Development Plan and Performance Review, 143, 155-161 Compact between Postdoctoral Trainee and Mentor, 151-154 individual development plans (IDPs) for, 131, 146-147 mentoring plan (NSF), 129 MIT Postdoctoral Life Survey, 127-130 performance review, 128-132 structured oversight, 131-132 Postmortems, 313 Power struggles, 336 negotiations as, 36 with passive-aggressive people, 232 with procrastinators, 233 The Practice of Adaptive Leadership: Tools and Tactics for Changing Your Organization and the World (Heifetz), 285, 300, 344-345 Presenting your work, 275-276 Primal Leadership (Goleman), 17 Principled negotiation, 37, 38, 58. See also Negotiation Private sector. See also Industry corporate culture shock, 267-268 differences between academic and private sector research, 265-267

transition to, 265-284 Problem-centered language, nonconfrontational, 215 Problems adaptive versus technical problems, 300-306 avoiding, 241-242 defining the problem, 106 examples in team management, 107-110 focusing on problems, not the person, 106-110, 125-126, 169-171, 226-227, 241-242, 327 generating solutions to, 107 good solution versus best solution, 274-275 guidelines for conversations concerning, 106-107 ignoring, 102-106 Problem-solving assessing candidate's skills in, 85 by complainers, 233 to deal with boss's anger or frustration, 209 with passive-aggressive people, 232 with procrastinators, 233 Process, focus on, 252 Profitable science, 269 The Program on Negotiation of the Harvard Law School, 346 Project Implicit, 65 Project management, successful, 279 Projectizing your work, 134 Projects giving up, 270-271 goals and objectives, 272 ownership of, 271, 272 termination of, 117-118, 265, 267-268, 270-271, 283, 300 Promotion, of self, 239, 274 Proposals, reviewing and refining meeting generated, 173-174 Psychological characteristics of scientific and technical professionals, 5-6 Psychological safety, 180-181 The Psychology of Judgment and Decision Making (Plous), 181 Publications, 246-247 Pushy people, dealing with, 231

Q

Questions to learn underlying interests or concerns, 210, 213–214 not to ask in hiring process, 75–76 open-ended, 50–52, 232, 233 problem-solving, 209 responsiveness of candidate during seminar, 79

R

Race, recognizing and acknowledging attitudes toward, 337–338 Randall, J.T., 329

358 / Index

Reactions, attention to, 326 Recognition in academic research, 246 individual, 113-114, 246, 312 in private sector, 273-274 Red flags, 336 face-to-face interview, 87 phone interview, 73 References, checking, 90-93 Refreshments, meeting, 168 Rejection, sensitivity to, 18, 23-24 Relationships, lab culture and, 122-123 Resentment toward management, 271 Resources, 343-346 Respect fostering a culture of, 122 leadership and, 288, 290, 311 Response determining the appropriate, 24-25 dichotomous reactions to different situations, 25-26 Responsibility accepting, 326 yours in difficult situations, 210-211 Résumés, reviewing, 71-72 Retreat reaction, 25, 33 Reward system in academia, 246-247 for individual performance, 331 Right words, finding, 106-110, 125-126 Role, yours in difficult situations, 210-211

S

Sadness word list, 31 Sapolsky, Robert, 5 Satisfycing, 274 Scapegoating, 184-185 Science Management Associates, 346 Science organization attitudes toward gender, race, ethnicity, and minority status, 337-338 differences from other organizations, 330-331 focus on people, 332-337 similarities to other organizations, 331-332 transformed, 338-340 transforming, 330-337 Scientific culture of the lab, 121 Scientific expertise, of leaders, 291-292 Scientists managing, 101-126 as psychologically flexible and quick learners, 11-12 stereotypes of, 1, 2 Scientists in Organizations: Productive Climates for Research and Development (Pelz and Andrews), 345 Scoresheets, hiring, 70 candidate phone interview, 74 candidate phone interview guide, 74

candidate summary, 98 face-to-face interview, 77 face-to-face interview guide, 82-84 management candidate interview, 95 management candidate interview guide, 96-97 reference phone interview, 90-91 reference phone interview guide, 91-92 résumé, 72 team member's, 88 Searching for Excellence and Diversity (Fine and Handelsman), 65 Self-assessment exercises and experiments dealing with others, 15 who you are, 13-14 Self-awareness case studies, 18-20, 24, 26-27 The Angry Scientist, 26-27 The Clueless Systems Analyst, 19-20 Left Out, 18-19 Zombie Anxiety, 19-20 during contentious team discussions, 189 developing and using, 22-25, 326 anticipating effect of feelings on behavior, 23-24 appropriateness of a behavior, 24-25 knowing what you are feeling, 22-23 dichotomous reactions to different situations, 25 - 26emotional intelligence and, 17 exercises and experiments, 29-33 behavioral polarities, 32-33 hot buttons, 32 noticing your feelings, 29-31 noticing your sensations, 31 noticing your thoughts, 29 reflecting on your self-awareness data, 31-32 guiding behavior using, 28 helping others to improve theirs, 26-28 identifying future leaders, 336 importance of, 17-21 interactions with your boss and, 201-203 of leaders, 308-310 low among scientists, 21 as mentor, 252 in negotiations, 52 silo thinking and, 276 training someone with limited, 335 yourself as difficult person, 235 Self-deprecation, 239 Self-promotion, 239, 274 Seminar, candidate, 77, 79 Seminar evaluation, 79-80 ability to think on their feet, 79 clarity and organization, 79 relevance/novelty of topic, 80 responsiveness to questions, 79 speaking skills, 79 Senge, Peter, 27-28 Sensations, noticing, 31

Index / 359

Sensitivity in meetings, 170-171 social, 180 Shared bias, 183 Sharing lab culture and, 122-123 by leaders, 313 Siepel, Adam, 136 Sigma Xi, 130-131 Silence, in meetings, 185-188, 198 Silo thinking, 276-283, 284, 315 case study, 277-281 counteracting, 282-283, 284 description of, 276 identifying, 281, 284 managing silos, 95 "us versus them" mind-set, 307 Simon, Herbert, 274 Smart goals, 135, 162 Social engineering via hiring, 87 Social sensitivity, 180 Solutions to problems. See also Problem-solving generating, 107 good solution versus best solution, 274-275 interim, 231 Solving the problem yourself (negative listening pattern), 57.62 Speaking different languages, 211-214 Standard operating procedures (SOPs), lab, 133 Standards, use in negotiation, 40-41 Stereotypes of scientists, 1, 2 Story editing, 299 Structured oversight, 131-132, 149-150 Success celebration of, 313-314 knowledge of criteria for, 312 Superiority, feelings of, 238-239 Support personnel, performance reviews for, 145

Т

Taking things personally, avoidance of, 54-56 Task ownership, balancing with team participation, 114 "Tea Bag Company" exercise, 2-4 Team meetings, 163-199 basics, 166-171 agenda, 167-168 decision fatigue, 168 focus on problems, not people, 169-171 laying groundwork for, 166-167 minutes and action items, 168 need for meeting, 166 rules of interaction, 169 case studies Contaminated, 181-182 The National Institute of Biology, 196-198 The Power of Silence in Groups, 186-187

conflict, managing, 188-192 centrality of managed conflict, 188 self-awareness, 189 temperature of the discussion, 189-192 decision-making scheme, 171-175 closure, 174-175 frame the meeting, 171-172 generate ideas, 172-173 home in, 173-174 discussing science without arguing, 235-237 domains of meeting dynamics, 193 exercises case study, 196-198 example meeting scenarios, 199 helping others participate, 198 people who dominate meeting, dealing with, 198-199 using silence, 198 group behaviors confirmation bias, 182-183 discomfort, feelings of, 187-188 displacement, 184-185 groupthink, 184 scapegoating, 184-185 shared bias, 183 silence, 185-187, 198 impediments to flow, 175-188 bogged down by technical discussions, 176-177 group, 181-188 individual, 177-180 off-topic discussions, 175-176 procedural, 175-177 psychological safety, 180-181 solution evaluation during brainstorming, 177 individual challenges, 177-180 monopolizers, 179-180, 198-199 naysayers, 177 nonparticipants, 177-178, 198 nonproductive behaviors, interventions for, 179 leader failure, examples of, 164-166 leader-dominated discussion, overcoming tendency toward, 194 leader's checklist, 193 leader's focus during, 192-194 role of leader, 164-166, 192-194 Team members in hiring process, 68, 88 interpretation and context provided by leader to, 314 knowledge of criteria for success, 312 misreading ability to work together, 8 in private sector, 272-273 relationships/interactions, lab culture and, 122-123 value placed on learning, development and growth of, 122 Team mind-set, assessing candidate's, 85 Team participation, balancing with task ownership, 114

360 / Index

Team rewards, 273 Teams balancing task ownership with team participation, 114 common problems which are difficult to deal with, 103 effective, creating, 114-115 growing awareness of teams in science, 101-102 ignoring problems and conflict in, 102-106 individual recognition, providing, 113-114 keeping in the loop, 314-315 misreading of events within, 6 psychological safety, 180-181 seeing the big picture, 115-116 uncertainty, helping team to manage, 116-118 Teamwork Is an Individual Skill (Avery), 115 Technical discussion, getting bogged down in, 176-177 Technical personnel, performance reviews for, 145 Technical professionals motivation of, 299 as psychologically flexible and quick learners, 11-12 Technical turf wars, 110-113 Temperature of the discussion, 189-192 Termination of projects, 117-118, 265, 267-268, 270-271, 283, 300 Themes, behavioral, 15-16 Thinking before you speak, 218, 228-230 Thinking words, 23 Thoughts, noticing, 29 Time, different conceptions of, 214, 280 Time-outs to defuse anger and hostility, 58 taking momentary, 29 Touching others, 54 Trainees assessing quality of mentors decisions, 254-255 communication with mentor, 257-258 different perspectives on your project, 256 evaluating interactions with mentor, 262-263 impact of mentor behavior, 251-252, 255-256, 257 needs different from mentor's, 257 passive or absent mentor, 258-259 perpetual cycle of academic training, 253 support for, 259-260 surviving in academia, 253-261 thesis committee members, 260 Training employees that you hire, 334-335 Training transferable skills, 131–132 Transferable skills, training, 131-132

Triggers, hot button, 32 Turf wars, 110–113

U

Uncertainty helping team to manage, 116–118 managing, 94–95, 311 Undermanaging, 290 Understanding, checking for, 327 *Understanding Your Management Style* (Benfari), 2 *The Undoing Project* (Lewis), 66 Unilateral decisions, 39 Unstable organizations, 116 Ury, William, 37 "us versus them" mind-set, 307

V

Validation, provided by leaders, 314 Values, building positive, 290 Verbal reaction, 25–26, 33 Vision, leadership and, 286, 291, 296 Vocabulary anger, 30 fear, 30 happiness, 30 lack of needed, 22–23 sadness, 31 thinking and feeling words, 23

W

Warning signs, of peer conflict, 225 Watson, James, 329–330 Wilkins, Maurice, 329–330 Women in Science and Engineering Leadership Institute, 346 Word list anger, 30 fear, 30 feeling, 23 happiness, 30 sadness, 31 thinking, 23 Working conditions, productivity and, 131

Υ

"You" statements, 226-227, 257