

# Index

## A

- ABC Equipment Company. *See* John Deere Construction & Forestry Technology Program
- Action framework: complex collaborations and, 5–8; elaboration and development of, 161–185, 187–207; foundation for, 5–6, 204; jazz metaphor for, 161, 162, 207; in John Deere case study, 26–47; metaprinciple of, 205–207; overview of, 6–8; phases in, 7–8; in Radica case study, 77–100; in Solectron case study, 135–160. *See also* Phase I; Phase II; Phase III; Phase IV
- Action steps: checklists of, 162, 164, 177, 189, 201, 204–205; expansion of, 161–162; improvising, 161; in John Deere case study, 27–28; master lists of, 162, 164, 177, 189, 201; metaprinciple for, 205–207; for Phase I (Setting the Stage), 27, 78, 136, 162–176; for Phase II (Getting Started with Specific Projects), 27, 78, 136, 176–185; for Phase III (Creating the Infrastructure), 28, 79, 137, 187–200; for Phase IV (Doing the Work), 28, 79, 137, 200–204; in Radica Games Group, Inc. case study, 77, 78–79; in Solectron-Brocade case study, 136–137
- Adaptation: of goals and plans, 28, 45–47, 203; of goals and plans, in John Deere case study, 28, 45–47; as lateral skill, 167; of pre-existing organizational structures, 151–153, 195; of pre-existing processes and structures, in Solectron-Brocade collaboration, 151–153
- Advisory committee, in John Deere case study, 38–40, 44, 46
- After-market service, 17
- Aggregated data, 114–117
- Agreements, formalized, 28, 41–43, 139, 197–198. *See also* Contracts; Expectations; Understandings
- Ang, C. L. (Choon Lee), 119–120, 146, 148–149, 155, 168
- Apple Computer, 123
- “Around the clock” workdays, 63, 79, 93–96
- Art Center College of Design, 52
- Asia: electronics manufacturing services (EMS) in, 105–106; Solectron’s acquisitions in, 105–106, 119
- Asian-Western cultural collaboration, 119–120, 132, 146, 148, 155, 157. *See also* Chinese-Western cultural collaboration
- Assembly line task, 3
- Athanassiou, N. A., 170
- Authority: clear lines of, 89–90, 193; combined with participation, 89–90; designing the structure of, 192–193; in John Deere case study, 28, 38–40; leadership and, 89–90, 193–194; in Radica case study, 79, 87–90
- Autonomy: defining liaison roles and, 179; in Solectron-Brocade collaboration, 144–146, 152–153
- Avis, 80

## B

- Bacica, N. (Nick), 126, 145–146
- Bass Fishin’ project (Radica): background and history of, 50–56, 178; case study presentation of, 52–65; communications in, 62–64, 80–81,

- Bass Fishin' project (Radica), *continued*  
 92, 96–97, 175, 198; concept behind,  
 55; ideation and development of, 56–  
 57; importance of mutual respect in,  
 80–81; leadership of, 52–53, 58–60,  
 85, 87–88; liaison role in, 60, 83–84,  
 85, 86–87; overview of, 10–11; prod-  
 uct development process of, 61–65;  
 project team of, 56–60; success of,  
 64–65. *See also* Radica Games Group,  
 Inc.
- Bikson, T. K., 35, 43, 148
- Blaming, 82, 108
- Bottom-up collaborations: Phase II  
 (Getting Started with Specific Proj-  
 ects) action steps for, 181–185; top  
 management support for, 27, 32–33,  
 183–184, 185; when senior manage-  
 ment does not set the stage, 184–185
- Boundaries, respect for, 116–117,  
 128–129, 150, 197
- Boundary-crossing collaboration. *See*  
 Collaboration; Complex collaborations
- Boundary spanners: bottom-up initia-  
 tives and, 181–182; encouragement  
 of, 163, 165; going native and, 195–  
 196. *See also* Liaison roles
- Boundary spanning: face-to-face inter-  
 action for, 171–172; policies and sys-  
 tems for, 172–176; support for, 163–  
 166, 172–176; training in, 190–191
- Branding strategy conflicts, in Radica case  
 study, 71–72, 82, 85–86, 89, 97–98
- Brase, K. (Kevin), 56, 57, 60, 87–88, 97
- Brocade Communication Systems: back-  
 ground on, 122–123; culture of,  
 142–146; CEO Award of, 132; growth  
 of, 126; Solectron's initial relation-  
 ship with, 123–126
- Brocade Initiatives (Solectron case  
 study): action framework analysis of,  
 135–160; action steps for, 136–137;  
 beginnings of, 123–126, 182; case  
 study overview of, 11; case study pre-  
 sentation of, 122–133; collaborative  
 pairs in, 146–147; collaborative pro-  
 cesses in, 130–131; communication  
 in, 155–157; cultural compatibility  
 in, 142–146; customer account man-  
 agement team for, 129–131, 151–152,  
 158; deep collaboration in, 129–133,  
 159; liaison roles in, 118–120, 126–  
 128, 146–150, 155; logistics initia-  
 tive, 126–133, 158–159; Phase I  
 (Setting the Stage) of, 135, 136, 138–  
 142; Phase II (Getting Started with  
 Specific Projects) of, 142–150, 182;  
 Phase III (Creating the Infrastructure)  
 of, 150–154; Phase IV (Doing the  
 Work) in, 154–159; relationship  
 building in, 131–132; structure of,  
 150–154; success of, 132–133
- Buddhists, 93
- Budgeting: for resources, 199; for travel,  
 171
- Burns, K. (Kevin), 111
- Bush, G. W., 101
- ## C
- Cantonese, 61, 64
- Capabilities, finding partners with appro-  
 priate, 30–31, 142
- Carbone, J., 111
- Carrier management, 128, 154
- “Carter, Beverly,” 20, 34, 35, 36, 38, 44
- Case studies: overview of, 8–12, 204;  
 presentation of, 205. *See also* John  
 Deere Construction & Forestry Tech-  
 nology Program; Radica Games  
 Group, Inc.; Solectron Corporation
- Caterpillar, 16
- Central Minnesota College (CMC) proj-  
 ect. *See* John Deere Construction &  
 Forestry Technology Program
- Change: adaptation to, 45–47, 203; eco-  
 nomic, 103–105
- Charter, 197–198
- Checklists, action step, 162, 164, 177,  
 189, 201, 205
- Cheerleading, 82–83
- China: electronic manufacturing services  
 (EMS) in, 106; Radica manufacturing  
 factory in, 51, 57–58, 61; Solectron  
 in, 106
- Chinese-Western cultural collaboration,  
 52–53, 54; conflicts in, 69–70; cul-  
 ture-bridging role in, 60, 83–84, 85,  
 86–87; language challenges in, 61,  
 64; mutual respect in, 80. *See also*  
 Asian-Western cultural collabora-  
 tion; Radica Games Group, Inc.;  
 Solectron Corporation
- Ciborra, C., 181

- Cisco, 123
- Co-location: mutual, 132; of Radica project teams, 90–91; in Solectron-Brocade collaboration, 131, 132, 155–156
- Coaching, to instill cultural norms, 82–83, 165–166
- Cognitive behavioral therapists, 93
- Cohen, S. G., 4, 35, 43, 148, 170
- Coleman, O., 161
- Collaboration: continuum of complexity in, 2–5; new forms of, 1–2; traditional forms of, 1. *See also* Complex collaborations
- Collaboration tasks, 200, 202
- Collaborative pairs: in bottom-up and middle-out collaborations, 182–183, 184; creating, 180; of executive sponsors, 37, 181, 184; in John Deere Construction & Forestry Technology Program, 27, 36–37, 44; project team creation by, 180–181; in Radica case study, 78, 85–87; in Solectron-Brocade collaboration, 146–147
- Collaborative value chains, 2. *See also* Supply-chain collaboration
- College-based training collaboratives, John Deere, 15–47. *See also* John Deere Construction & Forestry Technology Program
- Collegial leadership, 39–40
- Colloquialisms, 94
- Coltrane, J., 161
- Communication: collaborative, 174–175; cross-functional, 190–191; cultural differences and sensitivity in, 64, 73–75, 79, 118–120, 148, 155, 175, 196; frequent and regular, 28, 43–45, 195–196; informal *versus* formal, 43–45; in John Deere case study, 43–45, 46; mindful, 93–96; modes of, compared, 97, 170; in Radica case study, 62–64, 72–75, 91–100; response in, 96–97, 196; to share learning, 46–47, 99–100, 157–158; in Solectron-Brocade collaboration, 118–120, 155–157; of strategic vision, 165–166; between techies and users, 148–149; technology-based, 73, 92, 95, 118, 155, 174, 175, 198; training in cross-cultural, 190–191. *See also* E-mail; Face-to-face meetings; Information sharing; Liaison roles
- Communication needs identification, 195–196
- Communication norms, 79, 92–96, 118–120, 155–156; establishing, 196–197
- Community college training collaboratives, John Deere, 15–47. *See also* John Deere Construction & Forestry Technology Program
- Competition: within collaboration, 82–83; in electronic manufacturing services (EMS) industry, 103–105; in video game controller market, 68–69
- Complex collaborations: action framework for, 5–8, 161–185, 187–207; case studies of, overview, 8–12; continuum of, 2–5; international, 49–50; interorganizational, 10, 11, 15–47, 103, 179; new economy, 49; “old economy,” 15, 49; simple collaborations *versus*, 3–5, 37–38; structural demands of, 38
- Concurrent engineering, 113
- Conferences, international, 171
- Conflict, in Radica’s controller project collaboration, 69–75, 82, 85–86, 88–89, 97–99
- Conflict management: agreement formalization and, 43; collaborative pairings for, 85–87; cultural norms for, 82–83; escalation paths for, 193; face-to-face interaction and, 97–99
- Congenial racist, 35
- Connor Peripherals, 123
- Construction and forestry equipment. *See* John Deere Construction & Forestry Technology Program
- Contracts, formal: development of, 197–198; John Deere case study and, 28, 42–43; Solectron’s use of, 109–110, 139, 150
- Controller project. *See* Video game controller project
- Creating the Infrastructure. *See* Infrastructure, collaborative; Phase III; Structure
- Credibility, liaison, 180
- Cross-cultural collaboration case studies. *See* Radica Games Group, Inc.; Solectron Corporation

- Cross-cultural communication, 64, 73–75, 79, 93–96, 118–120, 148, 155, 175, 196. *See also* Communication
- Cross-cultural skills training, 118, 146, 155, 169–170; for project teams, 190–191; travel and, 171–172
- Cross-functional communication training, 190–191
- Cultural compatibility, in John Deere case study, 31
- Cultural differences, 4; in communication, 64, 73–75, 79, 93–96, 118–120; in e-mail communication, 74, 75, 79, 93–96; in Radica's Bass Fishin' project, 49–50, 60, 61, 80, 83–84; in Radica's controller project, 65–69, 70–71; in Solectron's supply chain, 119–120, 146; between techies and users, 148–149; training in, 169–170
- Cultural immersion experience, 168
- Cultural sensitivity training, 118, 146, 155, 169–170
- Culture, organizational: action-oriented, 77, 78, 80–83; Brocade's, 123; building a collaborative, 165–166; communication norms in, 92–96; internalization of, 152, 155; of mutual respect, 53–54, 59, 64, 65–66, 77, 78, 80–83, 165–166; of openness, 59; performance-driven, 117–118, 153; Radica UK's, 70–71; Radica's, 53–54, 59, 70–71, 77, 78, 80–83; Solectron-Brocade compatibility in, 142–146; Solectron's, integration of acquisitions in, 117–118; steps for building, 77, 78, 80–83
- Culture-bridging role, in Radica case study, 60, 83–84, 85, 86–87. *See also* Liaison roles
- Culture creation: for collaborative culture, 165–166; for culture of action and mutual respect, 77, 78, 80–83; for extraorganizational relationships, in John Deere case study, 26, 27, 29
- Cummings, T. G., 6, 190, 191
- Cummins, 16
- Customer account management teams, 120–121, 129–131, 151–152, 158
- Customer relationships: deep collaboration strategy for, 112–122, 125–126, 129–133; information sharing in, 113–117, 150; integration of supplier relationships with, 120–121; new services for, 112–113, 116; performance measurement in, 113–117, 140, 153; Solectron's, 105, 112–122
- Customer satisfaction index (CSI), 114, 140, 141
- Customer service orientation, in liaison role, 149–150
- ## D
- Dallas Radica offices, 51, 54–55; communications between Hong Kong and, 62–64, 90–91, 96–97; conflict between Radica UK and, 70–72, 88–89, 97–99; ideation in, 56–57, 61
- Data integration, 114–117
- Davids, B. (Bob), 52–55, 56–57, 58–59, 60, 64, 65, 77, 80, 82–84, 87–88, 96, 146, 166, 168, 178, 179, 205
- Decision-making structure, 79, 87–90, 193
- Deep collaboration strategy: in Solectron-Brocade collaboration, 125–126, 129–133, 159; in Solectron's customer relationships, 112–122
- Deere & Company. *See* John Deere & Company
- Dell, 122
- Demand, factors in, 104–105
- DeMand, P. (Paul), 106–107, 109–110, 140
- Demoboards, 63
- DePalma, V. (Vincent), 113, 116
- Distance-spanning collaborations: Radica case study of, 49–100; Solectron case study of, 101–160
- Diversity: continuum of collaboration and, 3, 4; lateral skills for working with, 29, 35, 83–84. *See also* Cultural differences; Functional diversity; Organizational diversity
- Doing the Work. *See* Phase IV
- Dot-com boom, 104
- Dot-com bust, 104
- Dougherty, D., 4, 149
- Doughty, J. (John), 72, 84, 85–86, 92, 98
- "Dr. Deere," 23, 34, 36
- Duarte, D. L., 205

## E

E-mail communication, 198; cultural differences in, 74, 75, 79, 93–96; ground rules for, 196; in John Deere case study, 44; limitations of, 93–95, 157; in Radica's controller project, 73–75, 79, 92, 93–96

Earley, P. C., 74

Early wins, going for, 137, 154–155, 158–159, 174

Easygoing quality, 34–35

Economic conditions, impact of, on electronics manufacturing services (EMS) industry, 103–105

Economic decline: and John Deere training collaboratives, 24, 25, 45, 47; and Radica's Bass Fishin' project, 62; and supply chains, 104–105

Electronic fishing games. *See* Bass Fishin' project

Electronic game manufacturer. *See* Radica Games Group, Inc.

Electronic golf games, 51

Electronic manufacturing services (EMS) industry: globalization of, 105–106; impact of economic conditions on, 103–105; OEM collaboration with, 113. *See also* Solectron Corporation

Empathy, 35, 149–150, 167

Enabling serendipity, 206

Engineering culture, 53

English language, 61, 64, 146

Enthusiasm, as liaison quality, 34–35

Entrepreneurial culture, 142–143

Erez, M., 74

Ericsson, 105

Escalation paths, for resolving conflicts, 193

Ethics training course, 118

Evaluation, 202

Executive briefings, in Solectron-Brocade collaboration, 131, 158, 203–204

Executive sponsors: assignment of, 181, 184; collaborative pairings of, 37, 181, 184; presenting resource needs to, 199. *See also* Top management; Top management support

Expectations: about collaborative behavior and process, 195–198; about flexibility and change, 203. *See also* Contracts; Understandings

External stakeholders communication, 28, 44

## F

Face-to-face (FTF) collaboration, 4–5, 37–38, 195–196

Face-to-face (FTF) meetings: among liaisons, 180; of collaborative pairs, 36–37, 44, 78; compared with other communication modes, 97, 170; cultural differences in, 75; with home organizations, 195–196; in John Deere case study, 36–37, 43–45; for knowledge sharing, 46–47, 99–100, 157–158; at operational levels, 98–99, 172; providing opportunities for, 170–172, 180, 195–196; in Radica's controller project, 72, 74–75, 79, 97–99; for relationship building, 43–44, 89, 97–99, 170–172; in Solectron-Brocade collaboration, 130–132, 156–158; with Solectron's suppliers, 107–109, 110–111

Facilitative leadership, 40, 59, 79, 87–90, 152–153

Fax communication, between Radica's Dallas and Hong Kong offices, 62–63, 73, 92, 198

FCI Electronics, 108–109, 111, 157

Feedback, individual, to instill cultural norms, 82–83, 165–166

Feely, P. (Pat), 65, 67, 70, 81, 82, 83, 84, 89, 96, 97, 166

Finegold, D., 173

Fishing games, 50–51, 55

Flanigan, J., 1, 16

*Fortune* 100, 15

Functional diversity, 4; boundary spanners and, 163, 165; cross-functional assignments and, 169–170; cross-functional training for, 190–191; integration of, in Solectron case study, 120–121, 148–150, 155

Funding, of John Deere Construction & Forestry Technology Program, 33

## G

Galbraith, J. R., 198

GameCube, Nintendo, 51, 66

Gamester brand, 71, 72. *See also* Video game controller project

“Garnet, Don,” 20, 31–32, 34, 38, 184  
 Gearhart, S. (Steve), 115  
 Gersick, C. J., 197  
 Getting Started with Specific Projects.  
   See Phase II  
 Gibson, C. B., 170  
 Global account manager (GAM), 120–121  
 Global account supply chain (GASC)  
   director, 121  
 Global business environment: complex  
   collaborations for, 2–5; new collabora-  
   tive forms for, 1–2; “old economy”  
   company in, 15, 16–17. *See also* New  
   economy  
 Global data warehouse (GDW), 114–  
   117, 140, 141, 150, 154, 175  
 Global supply chains. *See* Supply chains  
 Goals: defining, 192; finding partners with  
   shared, 27, 30, 142; revising, under  
   changing conditions, 45–47, 203  
 Going native, 195–196  
 Gomez, A. (Andrew), 118–120, 146,  
   155, 168  
 Governance structure: defining,  
   192–193; in John Deere case study,  
   28, 38–40; leadership and, 193–194;  
   of Solectron-Brocade collaboration,  
   152–153  
 Granular data, 114–115  
 Griffin, T. (Tim), 121, 132, 143  
 Ground rules, communication, 196–197.  
   *See also* Communication norms  
 Groundwork. *See* Phase I (Setting the  
   Stage)

## H

Handshakes, 107, 109, 139  
 Harsha, D. (Dave), 22, 23, 34, 36, 41  
 Hartung, F. (Fred), 127, 145, 150–151  
 Hayes Mansion Meetings, 131, 158,  
   203–204  
 Hewlett-Packard, 102, 122  
 Hitachi Data Systems, 122  
 Hogan, J., 167–168  
 Hogan, R., 167–168  
 Hogan Assessment Systems, Inc., 167  
 Hogan Personality Inventory, 167–168  
 “Holt, Myra,” 20, 31–32, 34, 38, 44, 184  
 Hong Kong Polytechnic University, 52  
 Hong Kong Radica offices, 51; communi-  
   cations between Dallas and, 62–64,  
   90–91, 96–97; conflict between  
   Radica UK and, 69–70, 97–99;  
   engineering project team in, 57–58,  
   61, 91  
 Humor: cultural differences in, 74, 75,  
   94; as liaison quality, 34–35

## I

IBM, 102, 105, 122, 123  
 Implementation team, in John Deere  
   case study, 38–40, 44  
 Industrial design orientation, 58–59,  
   88–89  
 Informal learning processes, 99  
 Informality, in simple collaborations,  
   37–38  
 Information needs identification, 198  
 Information sharing: boundaries in, 116–  
   117, 128–129, 150; of proprietary  
   information, 116–117, 128–129, 150;  
   in Solectron-Brocade collaboration,  
   128–129, 130–131, 150, 155–158,  
   175; with Solectron’s customers,  
   113–117, 150; in Solectron’s Supplier  
   Council, 110–111, 139; with  
   Solectron’s suppliers, 110–111,  
   139–140. *See also* Communication;  
   Learning dissemination  
 Information systems, 174–175, 198  
 Infrastructure, collaborative: in  
   Solectron-Brocade case study, 135,  
   136, 138–142, 150–154; to support  
   collaborative behavior, 174–175.  
   *See also* Phase III; Structure  
 Infrastructure creation. *See* Phase III  
   (Creating the Infrastructure);  
   Structure  
 Integrated product development, 113  
 Integrating team, 180–181  
 Integration, of Solectron’s acquisitions,  
   106; from customer to supplier, 120–  
   121; functional, 120–121, 148–150;  
   global data warehouse for, 114–117;  
   in Malaysia, 119–120, 146, 155;  
   standardized processes and practices  
   for, 111–112; through common  
   culture, 117–118; through communi-  
   cation, 118–121, 155  
 Integrity, 150  
 Intellectance, 167  
 Interdependence: in global supply  
   chains, 101–102, 103; reciprocal,  
   91–92

- International collaboration case studies.  
 See Radica Games Group, Inc.;  
 Solectron Corporation
- Interorganizational collaborations: high-level structure for, 179; John Deere case study of, 10, 11, 15–47; Solectron case study of, 101–160; supply-chain collaboration as, 11, 103. *See also* John Deere Construction & Forestry Technology Program; Solectron Corporation
- Interpersonal skills: as liaison quality, 34–35. *See also* Lateral skills
- J**
- “Jackson, Joan,” 20, 21, 34, 35, 36, 38, 39–40, 41–42, 44, 184
- Jazz metaphor, 161, 162, 207
- Job rotation, 169–170
- John Deere & Company: background on, 15–17; competitors of, 16; customer expectations of, 17; global workforce of, 16; new economy challenges for, 16–17; technician training needs of, 16–17, 30; Timberjack acquisition by, 18
- John Deere Agricultural Equipment Division “Ag Tech” Program, 18, 26
- John Deere Construction & Forestry Technology (C&F Tech) Program: “ABC Equipment Company” in, 19–21, 22, 31–32, 35, 37, 38–39, 41–42, 44, 184; action framework analysis of, 26–47; action steps for, 27–28; background of, 15–19; case study presentation of, 18–26; “Central Minnesota College (CMC)” project of, 19–22, 31–32, 33, 34, 38, 45, 184; colleges’ contribution to, 19, 30–31; culture of extraorganizational relationships in, 26, 27, 29, 166; dealers’ contribution to, 19, 31; Deere & Company contribution to, 19, 31; “Northland Equipment Company” in, 20–21, 31, 33, 36, 41–42; overview of, 10, 12, 18–19; partner selection in, 27, 30–32; Phase I (Setting the Stage) of, 26–29; Phase II (Getting Started with Specific Projects) of, 27, 30–37, 184; Phase III (Creating the Infrastructure) of, 28, 37–43; Phase IV (Doing the Work) of, 28, 43–47; “Prairie College” project of, 22–24, 32, 33, 34, 36, 38–39, 41, 45; Radica case study *versus*, 49–50; results of, 24–26, 45–47, 203; role confusion in, 23, 41–43; Solectron case study compared with, 198; success of, 24, 25, 46; Texas State Technical College in, 24
- John Deere dealerships: background on, 15–16; competition among, 21; contribution of, 19, 31; technician training needs of, 17, 30; training collaboratives with, 15–47
- John Deere Foundation, 33
- Johnson, N. (Nigel), 127, 128, 129, 147, 153, 158–159, 182
- Joint learning activities, 158
- K**
- Kenton, S., 161
- Kiesler, S., 45, 74
- Klein, K. J., 148
- Knowledge-based machinery, 16–17
- Knowledge work, task uncertainty of, 4
- L**
- Lam, S. W., 52–55, 56, 57, 59–60, 63–64, 65, 75, 77, 80, 82–84, 85, 86–88, 92, 96, 146, 166, 168
- Language differences: e-mail and, 73; in Radica case study, 50, 58, 61, 64, 73, 85; in Solectron’s supply chain, 119, 146, 148
- Lateral career moves, 83–84, 98, 169–170
- Lateral skills: defined, 29, 35; development of, organizationwide, 169–170; development of, through travel, 171–172; development of, using lateral career moves, 78, 83–84; in John Deere case study, 29, 35, 37; in project team, 180, 188, 190; qualities associated with, 35, 167–168; in Radica case study, 78, 83–84, 85; in Solectron-Brocade collaboration, 147–150
- Lawler, E. E., III, 173, 174
- Leadership: authority and, 89–90, 193–194; defining, 193–194; facilitative and collegial, 40, 59, 79, 87–90, 152–153; governance and, 193–194; of John Deere Construction & Forestry Technology Program, 29,

- 34–35, 38–40, 41–43; of Radica's projects, 52–53, 58–60, 85, 87–90; shared, 39, 40, 41–43, 87–88; of Solectron-Brocade collaboration, 152–153
- Learning dissemination: face-to-face meetings for, 46–47, 99–100, 157–158; to high-level decision makers, 203–204. *See also* Information sharing
- Learning from doing: execution of, 202; in John Deere case study, 28, 45–47; plan for, 199–200, 202; in Radica case study, 79, 99–100; in Solectron-Brocade collaboration, 154–155, 157–158; types of, 200
- Learning plan: development of, 199–200; execution of, 202
- Leda Media Products (LMP): background of, 68; Radica acquisition of, 51, 67–68, 83, 95. *See also* Radica UK
- Ledford, G. E., 173
- Letters of agreement, 42
- Liaison roles: in bottom-up and middle-out collaborations, 182–183; collaborative pairings of, 27, 36–37, 44, 78, 85–87, 146–147, 180, 182; continuity of, 39–40; creating, in top-down collaborations, 179; for cross-cultural communication, 118–120; customer orientation in, 149–150; defined, 34; in John Deere case study, 27, 29, 34–35, 39–40, 41–43; project leaders and, 194; qualities associated with, 34–35, 149, 167–168; in Radica case study, 61, 78, 85–87; recruiting and hiring, 167–168; selection for, 180, 194; single *versus* collaborative pair, 86–87, 147, 179; in Solectron-Brocade collaboration, 118–120, 126–128, 146–150, 155
- Listening, 149–150
- Logistics initiative, Brocade-Solectron, 126–129; competitor complication in, 128–129; manager of, 126–128
- Logo wars, Radica's, 71–72, 82, 85–86, 89, 97–98
- Los Angeles Times*, 1
- M**
- Malay, 119, 146
- Malaysian plant, Solectron's: cultural liaison for, 119–120, 146, 148, 155; travel to, 132, 157
- Malcolm Baldrige Award, 102
- Mandarin, 61, 64, 119
- Mankin, D., 35, 43, 148
- Market position, 67
- Maxey, E. (Eddie), 105, 140
- Maznevski, M. L., 170
- McDonald, K. (Keith), 132, 159
- McGinty, M., 17
- Measurement systems: in Solectron-Brocade initiatives, 129, 130–131, 151, 153; in Solectron's customer relationships, 113–117, 140; in Solectron's supplier collaborations, 107–109, 139–140
- Meetings. *See* Face-to-face meetings
- Metacognition, 93
- Metaprinciple, action framework, 205–207
- Microsoft, video game controllers for, 10, 51, 66
- Middle-out collaborations: Phase II (Getting Started with Specific Projects) action steps for, 181–185; top management support for, 27, 32–33, 183–184, 185; when senior management does not set the stage, 184–185
- Military strategy, 52, 88
- Mindful communication, 93–96
- Minnesota Job Skills Partnership, 21, 33, 42
- Mockups, product, 63
- Modeling: of boundary-spanning behavior, 165; of cultural norms, 83, 96; of values, 59
- Moezidis, D. (David), 121, 130, 131, 145–146, 147, 160
- Mohrman, A. M., Jr., 4
- Mohrman, S. A., 4, 6, 173, 190, 191
- Molzon, J. (Jim), 126, 127, 129, 144, 145, 147, 149, 150, 153, 182
- Monitoring, 202
- Mutual respect: in communication, 197; importance of, 80–81; in Radica culture, 53–54, 59, 64, 65–66, 77, 78, 80–83, 175; steps for building, 81–83, 165–166
- N**
- NASDAQ 100, 122
- Need identification, 178–179
- Negotiation: in Solectron's quarterly business review meetings, 107–109,

- 140; in Solectron's supplier contracts, 109–110, 140–141
- Networking, support for travel and, 171–172
- New economy, 15; challenges of, for “old economy” company, 16–17; communication technologies of, 73; Radica and, 49. *See also* Global business environment
- Nintendo: as Radica competitor, 68; video game controllers for, 10, 51, 66, 68
- Norms: communication, 79, 92–96, 118–120, 155–156, 196–197; cultural, 78, 82–83, 165–166
- Nortel, 105
- Northland Equipment Company. *See* John Deere Construction & Forestry Technology Program
- O**
- Objectives, defining, 192
- “Old economy”: communication technologies of, 62; company, 15, 16–17, 49
- Olsen, J. (Jeanne), 72, 84, 85–86, 92, 98, 171
- “Opening the kimono,” 116, 144, 156, 159
- Openness: as lateral skill, 35, 167; organizational culture of, 59
- Organization design, 191, 198
- Organizational diversity, 4; in Radica's controller project, 69–75
- Organizational self-design, 190
- Original equipment manufacturers (OEMs): Brocade and, 122; economic conditions and, 104–105; electronic manufacturing service provider collaboration with, 113; Solectron and, 102, 105, 113
- Outsourcing, 102, 112, 123
- P**
- Pairings, collaborative. *See* Collaborative pairs
- Park, R. (Richard), 16, 25, 40, 46
- Parker, C., 161
- Participation, authority combined with, 89–90
- Partner selection: in John Deere case study, 27, 29–32; in Solectron case study, 142
- People, number of, continuum of collaboration and, 3, 4
- People dimension. *See* Leadership; Liaison roles; Relationships; “Right people in right place”
- Performance assessment system, 173–174, 205
- Performance imperative: common culture for, 117–118, 142–146; Solectron's customer relationships and, 113–118, 153; Solectron's supplier relationships and, 106–112
- Performance monitoring, project, 202
- Personality tests, 167–168
- Phase I (Setting the Stage): action steps for, 27, 78, 136, 162–176; in John Deere Construction & Forestry Technology Program, 26–29; master list for, 164; overview of, 7; projects without, 162–163; in Radica case study, 77, 78, 80–84; in Solectron case study, 135, 136, 138–142
- Phase II (Getting Started with Specific Projects): action steps for, 27, 78, 136, 176–185; with bottom-up and middle-out collaborations, 181–185; in John Deere case study, 30–37; master list for, 177; overview of, 7; in Radica case study, 84–87; in Solectron case study, 142–150; with top-down collaborations, 176, 177, 178–181
- Phase III (Creating the Infrastructure): action steps for, 28, 79, 137, 187–200; in John Deere Construction & Forestry Technology Program, 37–43; master list for, 189; overview of, 8, 187–188; in Radica case study, 87–93; in Solectron case study, 150–154
- Phase IV (Doing the Work): action steps for, 28, 79, 137, 200–204; in John Deere Construction & Forestry Technology Program, 28, 43–47; master list for, 201; overview of, 8; in Radica case study, 93–100; in Solectron case study, 154–159
- Plans: learning, 199–200, 202; project, 199, 202; revising, 45–47, 203
- PlayStation, Sony, 51, 66
- Policies, to encourage collaborative behavior, 172–174

Political factors: in liaison selection, 180;  
in team member selection, 188

Positive attitude, as liaison quality,  
34–35

Prairie College project. *See* John Deere  
Construction & Forestry Technology  
Program

Pricing, 59

Product development, 49; global data  
warehouse (GDW) for, 116, 140;  
integrated, 112–113, 116; learning in,  
200; process of, 61–65; Solectron's  
expansion to, 112–113, 116; task  
structure for, 90–92; time pressures in,  
68–69, 70, 81. *See also* Radica Games  
Group, Inc.

Product life cycle, service offerings across,  
112–113

Product support demands, 17

Professional relationships: in Solectron's  
culture, 117–118, 152; Solectron's  
supplier, 106–112

Project plan: development of, 199; exe-  
cution of, 202

Project tasks. *See* Task structure; Tasks,  
project

Project teams: agreements, expectations,  
and ground rules of, 195–198; charter  
for, 197–198; co-location of, 90–91;  
core members of, 188; creation of,  
180, 188–191; governance and  
authority in, 193; leadership of,  
193–194; proposal development by,  
181; qualifications for, 180, 188,  
190–191; of Radica's Bass Fishin'  
project, 56–60, 90–91; of Radica's  
controller project, 65–66; structure  
and process creation for, 191–200;  
task structure and, 90–92, 179, 188,  
190; training of, 190–191. *See also*  
*Team headings*

Proposal development, 181, 183, 188

Public statements, to instill cultural  
norms, 78, 83

## Q

Quarterly business review (QBR): cus-  
tomer-side, 114; in Solectron-  
Brocade collaboration, 130, 157;  
supplier-side, 107–109, 140, 141

Quips, 94

## R

Radica Games Group, Inc.: action frame-  
work analysis of, 77–100; action steps  
for, 77, 78–79; background on, 50–51;  
case study overview of, 10–11, 49–50;  
case study presentation of, 49–76;  
challenges of, 75–76; China-based  
factory of, 51, 57–58, 61; communi-  
cation technology changes of, 63, 92,  
95–96, 198; communications in,  
62–64, 72–75, 91–100, 175; Dallas  
offices of, 51, 54–55, 56–57, 61; glob-  
al locations of, 51; global workforce  
of, 51; growth and related organiza-  
tional changes of, 65–66, 67–68;  
Hong Kong offices of, 51, 56–57;  
John Deere case *versus*, 49–50; Leda  
Media Products acquisition by, 51,  
67–68, 83, 95; organizational culture  
of, 53–54, 59, 70–71, 77, 78, 80–83,  
166; Phase I (Setting the Stage) of,  
77, 78, 80–84; Phase II (Getting  
Started with Specific Projects) of,  
84–87, 178; Phase III (Creating the  
Infrastructure) of, 87–93; Phase IV  
(Doing the Work) of, 93–100; prod-  
ucts of, 50–51; projects of, 52–75; slo-  
gan of, 51; turnaround of, 55–56;  
United Kingdom offices of, 51. *See  
also* Bass Fishin' project; Video game  
controller project

Radica UK: background and history of,  
51, 67–68; conflicts between Dallas  
office and, 70–72, 88–89, 97–99; con-  
flicts between Hong Kong office and,  
69–70. *See also* Leda Media Products

Ralls, R. S., 148

Reciprocal interdependence, 91–92

Recruitment: of liaison roles, 167–168;  
of partner-organization's people, 197

Relationship building: among liaisons,  
180; in John Deere case study, 43–45;  
at operational levels, 98–99, 172; in  
Radica's controller project, 69–75,  
82–83, 97–99; in Solectron-Brocade  
collaboration, 131–132, 156–157;  
with Solectron suppliers, 106–112;  
through face-to-face interaction,  
43–45, 79, 89, 97–99, 156–157,  
170–172; in top-down and middle-  
out collaborations, 183

- Relationships: dimension or thread of, 5, 6, 187, 206; importance of, to supply chains, 104–106; in John Deere case study, 21–22, 26–29, 34–37, 41–43; organizationwide structure that supports, 138–142; professional, 106–112, 152; in Radica case study, 79–87; in Solectron-Brocade collaboration, 129–133, 142–150; Solectron's customer, 105, 112–122, 141–142; Solectron's supplier, 106–112, 141–142; synergy of structure and, 206
- Repetition and reinforcement: of collaborative vision, 165; of cultural norms, 166; of Phase I action steps, 176
- Resource acquisition, for John Deere Construction & Forestry Technology Program, 33
- Resource needs identification, 198–199
- Respect for differences, as lateral skill, 35. *See also* Mutual respect
- Responsibility assignment: defining, 193–195; informal *versus* formal, 28, 41–43; for liaison roles, 179
- Reward system, 173–174
- "Right people in right place": finding, 167–168; in John Deere case study, 29, 34–35; in Radica case study, 78, 85; in Solectron-Brocade collaboration, 146–150
- Risk taking, in Solectron-Brocade collaboration, 143, 144
- Ritter, G. (Glenn), 126–129, 144–145, 147, 148, 149–150, 152–153, 154, 158–159, 168, 182, 196, 197
- Role confusion, in John Deere Construction & Forestry Technology Program, 23, 41–43
- Roles: defining, 193–195, 196; informal, 39–40, 41–43; in John Deere Construction & Forestry Technology Program, 23, 39–40, 41–43; in Radica's Bass Fishin' project, 56–60; in Radica's controller project, 65. *See also* Liaison roles
- S**
- Self-absorption, 167
- Self-awareness, in communication, 93
- Self-interest, 173–174
- September 11, 2001, 122
- Service technician training collaboratives, John Deere, 15–47. *See also* John Deere Construction & Forestry Technology Program
- Setting the Stage. *See* Phase I
- Shaw, G. B., 75
- Sherwood, J. (Joel), 131–132, 157
- Silicon Valley, 122, 123, 142–143
- Simple collaborations: characteristics of, 3; complex collaborations *versus*, 3–5, 37–38; informal structure of, 37–38
- Sims, M. (Mick), 18, 19, 20, 25, 29–31, 34, 38, 39–40, 46, 167
- Slang, 94
- "Smith, Derek," 21, 33, 34, 36, 38, 42
- Snyder, N. T., 205
- Socialist culture, 61
- Socio-political intelligence, 167–168
- Solectron-Brocade collaboration. *See* Brocade Initiatives
- Solectron Corporation: acquisition integration of, 111–112, 114–117, 117–121, 155; acquisitions of, 105–106; action framework analysis of, 135–160; actions steps for, 136–137; background on, 102, 103–106, 178; Brocade Initiatives of, 11, 122–133; Brocade's initial relationship with, 123–126; case study overview, 11; case study presentation, 101–133; Charlotte, North Carolina site of, 146, 155; Columbia, South Carolina factory of, 131–132; communications of, 118–120; culture of, 142–146; customer account management organization of, 120–121, 129–131, 151–153, 158; customer relationships of, 105, 112–122; global account managers (GAMs) of, 120–121; global account supply chain (GASC) director in, 121; global account teams of, 120–121; global "footprint" of, 111, 118, 155; Global Supply Management division, 105; John Deere case study compared with, 198; liaison roles in, 118–120, 126–128, 146–150, 155; logistics infrastructure of, 127–128, 129–131, 151–153; Malaysian plant of, 119–120, 132, 146, 148, 155; management structures of, 151–153;

- Solectron Corporation, *continued*  
 materials organization of, 120–121;  
 Phase I (Setting the Stage) of, 135,  
 136, 138–142; Phase II (Getting  
 Started with Specific Projects) of,  
 142–150, 182, 184; Phase III (Creat-  
 ing the Infrastructure) of, 150–154;  
 Phase IV (Doing the Work) in, 154–  
 159; professionalization of relation-  
 ships in, 106–112, 152; supplier  
 relationships of, 105, 106–112; sup-  
 portive structure of, 138–142. *See also*  
 Brocade Initiatives
- SolidWork, 73
- Sony: as Radica competitor, 68;  
 Solectron and, 102; video game con-  
 trollers for, 10, 51, 66, 68
- “Southwest Georgia Technical College,”  
 18
- Spontaneity, 37–38
- Sproul, L., 45, 74
- Standardized processes and practices, for  
 Solectron’s supplier relationships,  
 111–112, 141
- Storage area networks (SANs), 122
- Strategic partnerships, 2
- Strategic vision: articulation and promo-  
 tion of, 163–166; of Solectron supply-  
 chain collaboration, 138, 165
- Structure: action steps for creating, 187–  
 200; dimension or thread of, 5–6,  
 187, 206; for governance and authori-  
 ty, 28, 38–40, 87–90, 192–193; high-  
 level, 179; informal *versus* formal,  
 37–38, 41–43; of John Deere  
 Construction & Forestry Technology  
 Program, 37–43; liaison roles and,  
 34–35, 36–37, 39–40, 85–87; overall  
 project, 192–195; of Radica projects,  
 56–60, 79, 87–93; revising, 203; of  
 Solectron-Brocade collaboration,  
 150–154; of Solectron’s supply-chain  
 collaborations, 138–142; synergy of  
 relationships and, 206; task, 79,  
 90–92, 179, 188, 190
- Subject-matter expert, 58
- Success: incremental, 154–155, 158–159,  
 174; public celebration of, 165
- Success orientation, Solectron’s,  
 117–118
- Sun Microsystems, 123
- Supplier Council, 110–111, 139
- Supplier relationships: face-to-face inter-  
 action in, 171–172; formal contracts  
 for, 109–110, 139; integration of cus-  
 tomer relationships with, 120–121;  
 measurement systems in, 106–109,  
 139–140; performance-based, 106–  
 112, 139–142; Solectron’s, 105,  
 106–112, 139–142, 156–157; stan-  
 dardized practices in, 111–112, 141
- Supplier scorecard, 107–109, 140, 141,  
 150; customer satisfaction index and,  
 114, 140
- Supply-and-demand factors, 104–105
- Supply-chain collaboration: importance  
 of face-to-face interaction in, 156–  
 157; importance of relationships in,  
 104–106; as interorganizational col-  
 laborations, 11, 103; Solectron case  
 study of, 11, 101–160; supplier rela-  
 tionship-building in, 106–112, 156–  
 157. *See also* Brocade Initiatives;  
 Solectron Corporation
- Supply-chain facilitator, 102, 106, 125–  
 126, 141. *See also* Solectron Corpo-  
 ration
- Supply chains, nature of global, 101–102
- Support, top management. *See* Executive  
 sponsors; Top management support
- Sutter, J. (Jim), 130, 131, 132, 154, 157

## T

- Taft-Hartley Act, 101
- Task centrality, 103
- Task structure: designing, 179, 188, 190;  
 identifying high-level, 188; of Radica  
 projects, 79, 90–92
- Task uncertainty, continuum of collabo-  
 ration and, 3–4
- Tasks, project: collaboration tasks *versus*,  
 200; executing, 202; planning, 199;  
 revising, 203
- Taylor, M. (Matt), 123, 124, 125, 126,  
 128, 129, 131, 147, 150, 153, 154,  
 156, 158–159, 182
- Team membership: of Bass Fishin’ proj-  
 ect, 56–60, 90–91; core, 188; in John  
 Deere case study, 38–40, 41–43;  
 selection of, 180, 188–191; training  
 of, 190–191. *See also* Project teams
- Teams: new collaborative forms *versus*, 2;  
 reward systems for, 173–174. *See also*  
 Project teams

- Technical college training collaboratives, John Deere, 15–47. *See also* John Deere Construction & Forestry Technology Program
- Technician training collaboratives, John Deere, 15–47. *See also* John Deere Construction & Forestry Technology Program
- Technology developers and users, cross-cultural communication with, 148–149
- Technology needs, 198
- Telephone communication: compared with other communication modes, 97; in John Deere case study, 44–45; between Radica's Dallas and Hong Kong offices, 62, 63, 92, 198; between Radica's Hong Kong and UK offices, 94–95
- Temporary assignments, 169–170
- Texas Instruments, 105
- Texas State Technical College, 24
- Thinking outside the box, 163, 165, 182
- Thought worlds, 4, 149
- 3-D design software, 73, 92, 198
- Tiger Woods golf games, 51
- Timberjack, Inc., 18
- Time pressures: in supply-chain facilitation, 101, 102; in video game controller product development, 68–69, 70, 80–81, 81
- Time resources, for relationship building, 172
- Time-spanning collaborations: of duration, 10; Radica case study of, 49–100. *See also* Radica Games Group, Inc.
- Time-zone differences, 10; communication across, 63, 79, 94–95, 96–97; telephone communication and, 94–95; using, to drive twenty-four-hour work cycle, 63, 79, 96–97
- Top-down collaborations: bottom-up collaborations *versus*, 32–33; management support and, 84, 143, 181; Phase II (Getting Started with Specific Projects) action steps for, 176, 177, 178–181
- Top management: briefings of, 131, 158, 203–204; communication with, 44; learning dissemination to, 203–204; presenting resource needs to, 199; top-down collaborations and, 176, 177, 178–181; vision articulation and promotion by, 163–166
- Top management involvement: in goal definition, 192; in project leadership assignment, 194; in proposal development, 181
- Top management support: for bottom-up or middle-out collaborations, 27, 32–33, 183–184, 185; for collaborative vision and culture, 163–166; combined with autonomy, 144–146; in John Deere case study, 27, 32–33, 37; in Radica case study, 78, 84; for relationship building through face-to-face interaction, 170–172; in Solectron-Brocade initiatives, 143–146; in top-down collaborations, 84, 143, 181. *See also* Executive sponsors
- Townsend, R., 80
- Training: action steps and, 205; in cross-cultural communication skills, 190–191; in cultural sensitivity, 118, 146, 155; in lateral skills, 169–170; of project team members, 190–191
- Travel: management support for, 171–172; in Radica case study, 62, 63–64, 74–75, 92, 97–99; for relationship building, 79, 97–99, 131–132, 171–172; for sharing of learning, 46, 99–100, 158; in Solectron-Brocade collaboration, 131–132, 156–157; types of boundary-spanning and, 171–172
- Trust: communication ground rules and, 197; in Radica's Bass Fishin' project, 60, 64; in Radica's controller project, 69–70; in Solectron-Brocade collaboration, 144, 150, 151, 152, 156, 158–159
- Turf battles, 83, 84, 173
- Turnover, instructor, 23–24
- Two-year college training collaboratives, John Deere, 15–47. *See also* John Deere Construction & Forestry Technology Program

## U

- Uncertainty level: continuum of collaboration and, 3–4; information needs and, 198

Uncertainty reduction, structure for, 139, 141

Understandings: about communication needs, 195–196; about communication norms, 92–93, 95–96; formalization of, 28, 41–43. *See also* Agreements; Contracts

United Kingdom: humor and communication in, 74, 75, 94; Radica UK offices in, 51, 67–68, 69–75. *See also* Radica UK

Users and developers, cross-cultural communication with, 148–149

## V

Values: leaders' modeling of, 59, 83; shared, among Radica leaders, 53, 79–80

Video game controller project (Radica): background on, 51, 65–66; case study presentation of, 65–75; communications in, 72–75, 92, 97–99, 198; complexities of, 66–69; conflicts in, 69–75, 82, 85–86, 97–99; leadership of, 85–87, 88–90; logo wars in, 71–72, 82, 85–86, 89, 97–98; market conditions for, 66–67, 68–69, 81–82; overview of, 10, 11; strategic impor-

ance of, 66–67; success of, 75; time pressures of, 68–69, 70, 81–82, 89. *See also* Radica Games Group, Inc.

Videoconferencing: face-to-face communication *versus*, 97, 170; in Radica's controller project, 73, 92, 97

Virtual collaboration, 2, 4–5, 170

Virtual-motion concept, 55–56, 61–62, 67. *See also* Bass Fishin' project

Virtual motorcycle game, 51

Virtual snowboard game, 51

Vision. *See* Strategic vision

## W

Warmth, 167

Web-based global data warehouse (GDW), 114–117, 140, 141, 150, 154, 175

Web-based procurement tool, 111–112, 118

Wins, going for early, 137, 154–155, 158–159, 174

Work-style compatibility, 53

Work tasks. *See* Tasks, project

Worker empowerment, 54, 80

## X

Xbox, Microsoft, 51, 66