

Index

actions: influence of on thought, 152; and stories, 119, 143-4 Acts 9:1-6; 19-22 (NIV), 71 Adams, Richard, 146 adolescence, and attachment behavior, 62-3 advertising, 81 Aesop's fables, 66-7, 142-3 Allen, Diogenes, 18, 21-2 altruism, 93 Alzheimer's disease, 34, 155 ant colony, as example of dynamical system, 74, 75, 123, 124-6, 127, 129 anthropological dualism, 20 anthropological physicalism, 161 anticipatory expectations, 89, 90-1 Asperger's syndrome, 34 attachment theory: and child development, 59-62; openness to change and formation of personhood, 77-8; and spiritual formation, 113-15 Augustine of Hippo, St., 15, 16, 20, 21, 26, 32, 38 authenticity, and group therapy, 93, 94, 98 autism, 34, 36, 67-8 autobiography, 84 automatic reactions, 90 avoidant attachment, 60, 61 behavior: impact of imitation on, 79-82, 115-16; reciprocity of social, 89; spread of health oriented through Internetbased networks, 129-30. See also ethical behavior Berry, Wendell, 24-5 Bible: and stories, 119-20; teachings of on human nature, 16-22. See also Acts; 1 Corinthians; 2 Corinthians; Genesis 2; Hebrews; John; 3 John; Luke; Mark; Matthew; Micah; Psalms; Romans; 2 Thessalonians

biological determinism, 162 Bloom, Harold, 23 body: concept of having versus being, 4-6; and disability, 153-7; formation of by communication, 124-5; implications for church of views on spirituality and, 7-8; overview of perspectives on in context of church, 8-9; as self-forming system, 142; spiritual formation and imitation of Christ, 115-18; worship and formation of church, 149. See also Body of Christ; dualism; embodiment Body of Christ: and church as dynamical system, 125; and definition of church, 130-1, 160-1; growth of church into, 9, 133, 134, 135, 139, 168; and liturgy, 150; and physical life of church, 157; and role of church in spiritual formation, 120; and worship, 149, 150 bold/fearless temperament, 55 Bono (Paul David Hewson), 107 Bowlby, John, 60-1 brain. See brain injury; cerebral cortex; frontal lobe; neocortex; neuroscience; parietal lobe brain injury, 155 Brown, Raymond, 22 Brown, Warren S., 162n2 Buddhism, 45-6 candor, and group therapy, 93, 94, 98 catastrophes: dynamical systems and openness to change, 112-13, 123; and growth of church, 131-5; and maturation of self-organizing systems, 75-6; and stories in Bible, 120 Celebrate Recovery program, 156 cerebral cortex, 31, 32 chameleon effect, and imitation, 79

173



> INDEX 174

change: personal transformation and hope 113-15; small groups within setting of, for, 91-2; personal transformation and models of, 98-100. See also openness; 110-11; and spiritual formation, personhood; spiritual formation 141. See also Christianity; character: formation of, 53-5, 58-9, 64, 69, 143, 152; of groups and churches, "church growth," 118-19 131-3, 139, 141, 152 "church shopper," 106–107 Chemel, Benjamin R., 44n24 children, development of: disorders of, 67-9; cities, and self-organization, 127-8 and empathy, 63-4; and formation of clinical psychology, 89 personhood, 69-70; and imitation, cognitive disability, 155 56-8; and interpersonal attachment, Colossians 1:27 (NIV), 109 59-63; and language, 64-7; openness and self-organization in, 53-5; and 124-5 shared attention, 58-9; and social experiences, 52-3, 68-9; and Von Economo neurons, 37 110. See also neighborhood Christianity: disability and concept of body in, 153-7; emergence of new form of, consequences, and stories, 143-4 165-7; and formation of personhood in children, 69; Gnosticism in of church, 108, 109; stories about contemporary, 23-7; and image of dramatic and sudden, 72 embodied Christ,167-8;; maturation and formation of wisdom and virtue, 87; 2 Corinthians 5:1-6, 21 purposes of dualism within thought and corporate worship, 147, 150 life of, 163-4; questions raised cosmological dualism, 20 concerning Christian life, 9; spiritual

church; conversion; God church: as alternative narrative, 142-7; anticipatory expectations and destructive relational cycles in, 90-1; Body of Christ and definition of, 130-1, 160-1; catastrophe and growth of, 131-5; and "church growth," 118-19; and "church shopper," 106-107; and concept of emergence, 164-7; disability and Christian formation in, 153-7; dualism in early, 22-3; as dynamic network, 123-4, 125-7; and embodied worship, 147-52, 161; and embodiment of personhood of children in programs, 69–70; and group size, 135–9; growth of into Body of Christ, 9; implications of views on spirituality and the body for, 7-8; leadership and selforganization of, 127-31; nature of as social system or network, 122; overview of perspectives on human beings as bodies in context of, 8-9; physical life of, 157; quantity and quality of communication

formation and imitation of Christ,

115-18. See also Bible; Body of Christ;

in, 125; reasons for attending, 106-108; and reciprocal nature of system formation, 125-7; and role of secure attachment in spiritual formation,

94; and social formation of persons, 108-10, 118-20; and stories, 133, Protestantism; Roman Catholicism communication, and formation of bodies, community: and goal of church, 7-8; and spiritual formation as purpose of church, complex dynamical systems, theory of, 74, 78 conversion: spiritual formation and purpose 1 Corinthians 4:15-17, 115; 15:35-58, 21 culture: and catastrophe as source of growth for church, 134-5; and Great Emergence in contemporary Christianity, 167; and interpretation of stories, 144. See also Greek culture; ethnicity; Native Americans

Deacon, Terrence, 65-6 demographics, changes in as source of catastrophe, 135 dendrites, and memory systems, 73 dependence, and disability, 153-4 DePree, Max, 145 Descartes, René, 15-16, 20, 21, 26, 30, 32, 38, 47 desire, and process of imitation, 58, 79, 81-2 determinism, and concept of emergence, 162 development. See children; personhood dilemmas, and morality, 39-41 disorganized attachment, 60-1, 64 Down's syndrome, 155 Doystoyevsky, Fyodor, 42-3 drugs, and religious experiences, 44-5. See also substance abuse dualism: and Bible's lessons on human nature, 16-22; in early church, 22-3; explanation of concept, 5-6, 14; history of, 14-16; and issues of illness and disability, 156; and models of change, 99; overview of discussions on, 8, 11-12;

Damasio, Antonio, 40



INDEX 175

dualism (cont.) purposes of within Christian thought and life, 163-4; and salvation, 109; and view of self, 13-14 Dunbar, Robin, 136-7 dynamical systems: ant colony as example of, 74-5; catastrophe and growth or change in, 131; and church as dynamic network, 123-4, 125-7; and openness to change, 112 dysnarrativia, 84 economics, as source of chaos and catastrophe, 135 Ecumenical Council of Chalcedon, 165 electromagnetic stimulation, and religious experiences, 44 embodiment: and image of embodied Christ, 167-8; of personhood in church programs for children, 69-70; and monism, 5; and personal transformation, 99-100; and predominant modern view of spirituality, 2-4; and spiritual formation, 109-10; of worship in church, 147-52, 161. See also body emergence: church and concept of, 164-7; of complex self-organizing communities, 127-8, 129-31, 142; of human properties and capacities, 6, 30, 49, 54, 69, 74; and role of church in Christian faith, 122; and role of worship in formation of church as body, 149; and theory of complete determinism, 162 emotions: and moral intuitions, 40-1; and worship, 148-9 empathy: and child development, 63-4, 66; and language, 66; neuroscience and research on, 34-5 enmeshment, and group size, 138 environmental determinism, 162 epilepsy, and religious experiences, 29, 43 ethical behavior, and role of language in child development, 4, 25, 66, 157. See also morality ethnicity, and cultural difference as source of

family: catastrophe and change or growth in, 131-3; as dynamical system, 123-4, 125; and reciprocity, 126; and selforganization, 128 frontal lobe, of brain, 33-4, 40, 46, 54 functional MRI (fMRI), 31, 64

catastrophe, 135

Eucharist, and worship life of church

congregations, 151, 152

evangelism, and dualism, 163

Galen of Pergamum, 15 Gazzola, Valeria, 56n12 Genesis, 2, 17 Girard, René, 81, 117 glossolalia, 46 Gnosticism: and concept of body and soul, 5; in contemporary Christianity, 23-7, 107-108, 109; and early church, 22; and issues of illness and disability, 155 God: nature of, 161-2; spirituality as ongoing relationship with, 7 "God module," in brain, 43 Good Friday experiment, 45 Good Samaritan story, 143 Granqvist, P., 44n23 Great Emergence, 165-7 Great Schism, 165 Greek culture, influence on Palestine at time of Jesus, 15 Green, Joel, 6n3, 18, 19n10, 20, 21 Greene, Joshua, 39 Gregory I, Pope, 165 group contagion, 115-16 groups: churches and size of, 135-9, 152; processes of personal transformation in small, 92-4, 117. See also psychotherapy Gushee, David, 25-6

hallucinogens, and religious experiences,

44-5
Hauerwas, Stanley, 4, 146
health and wealth story, 119
Hebrews 6:12; 13:7, 115
hope, and change in individuals, 91-3
human nature: and concept of having or being
a body, 4-5; embodied perspective of
and questions about life after death, 163;
and models of change, 99; neuroscience
and distinctive characteristics of, 29-30;
and relationality, 33; and social
embeddedness of persons, 5-6;
teachings of Bible about, 16-22

identity, stories and construction of, 144–5 imagination, stories and regulation of, 146 imitation: and child development, 56–8, 59; of Christ and spiritual formation, 115–18; in formation of personhood and unconsciousness, 78–82 immediacy, and group therapy, 93, 98 individualism, and dualism, 15, 24–7, 163 infants, social experiences and development of, 52
"In the Garden" (hymn), 151 inhibited temperament, 55 insecure attachment, 60, 61, 62, 77, 113



176 INDEX

institutionalism, and new churches of Great Emergence, 166 intelligence, and brain function, 30, 55, 64, 73 interaction: of neighborhood with church, 134-5; and use of terms interact and relate, 72-3. See also attachment theory; relationality; social relationships Internet: social networks on and group size, 137; spread of health behavior through networks on, 129-30 interpersonal attachment, and child development, 59-63 interpersonal learning, 93 inwardness, and contemporary Christian thought, 15, 24-7 John 1:14, 23; 9:1-5, 159; 13:35, 110; 14:12, 168 3 John 1:11, 115 Johnson, Steven, 127-8 Kanzi (chimpanzee), 65 Keysers, Christian, 56n12 language: and child development, 64-7; and church as alternative narrative, 142; and lyrics of hymns, 151; shared attention and learning of, 59 leadership, and self-organization of church, 127-31 lectio divina, 95 liturgy, and worship traditions in church, 150-1 Luke 15:11-32, 144; 24:39, 20 MacIntyre, Alisdair, 67, 86-7, 153-4 magnetic resonance imaging (MRI), 31 Mark 2:1-12 (NIV), 158 Matthew 10:28, 19 McAdams, Dan, 84 meaning making, and child development, 54-5,61 meditation, and brain activity, 45-6 Meltzoff, Andrew, 57 memory systems, and neuroscience, 73-4 Micah 6:8, 121 Mimetic Theory, 81, 117 mirror neurons, 56-7 monism, 5, 6 moral intuitions, 40 morality, and neuroscience, 38-41. See also ethical behavior motivation, for change in individuals, 93 Murphy, Nancey, 6n3, 162n2

narrative: church as alternative form of, 142-7; about nature of spirituality, 119; importance of in understanding of self, 84-5; and physical life of church, 157. See also stories Native Americans, and stories, 143 neighborhood, and interaction with church, 134-5. See also community neocortex, of brain, 136 nephesh (Hebrew), 17-18 neuroscience: and anticipatory of expectations, 89; automatic and unconscious forms of imitation, 115; and capacity for language, 64-5; and changes in adult brain, 73-4; and distinctive characteristics of human nature, 29-30; dynamic flexibility and openness to change, III-I3; and group size, 136-7; and human distinctiveness, 47; mirror neurons and imitation, 56-7; and morality, 38-41; and rationality, 30-2; and relationality, 32-8; and religiousness, 41-6 Nichols, David E., 44n24 openness: and child development, 53-5; and

formation of personhood, 77-8; and

spiritual formation, 111-13

oxytocin, and development of trust, 35

Pahnke, Walter, 45 Pannenberg, Wolfart, 47 parietal lobe, of brain, 46 participation, and engagement in worship, 150-1, 152 Paul (Apostle), 19, 21, 71, 72, 109 Pennebaker, James, 84 Pentecostal worship forms, 163 personhood: attachment and openness to change, 77-8; child development and formation of, 69-70; and maturation of self-organizing systems, 73-6; overview of discussion of critical forces in development of, 8; and properties distinctive of human, 47; social relationships and re-formation of, 71-3; and stories, 82-5; and unconsciousness imitation, 78-82; wisdom and virtue in formation of, 85-7. See also self;

peyote cactus, 44 pheromones, 124 physicalism, 5 Plato, 14–15, 16 Powell, Mark Alan, 144 preaching, impact of story as fundamental strategy of, 85

transformation

music, as part of worship in church,

151-2



INDEX

177

preoccupied attachment, 60, 61 primates: group size in colonies of, 136; and language, 65; precursors of moral behavior in, 41; and Von Economo neurons, 37 Prodigal Son story, 144 Protestantism, 165, 166 Psalms 7:1-2; 16:10; 22:20; 49:14-15, 17 psychological disorders, 156 psychology: and anticipatory expectations, 89; and concept of meaning making, 54; and idea of scripts, 83-4 psychotherapy: and processes of transformation in small groups, 92-4, 95-100, 117; secure relationships and rise of, 114-15 Quartz, Steven, 53n5 rationality: and neuroscience, 30-2; and role of wisdom and virtue in human development, 86 reciprocity: and formation of church as dynamical system, 125-7; and imitation, 80, 87, 116; of social behavior, 89 Reformation, 165 relate, use of term, 72-3 relationality, and neuroscience, 32-8. See also social relationships religiousness, and neuroscience, 41-6 rivalry, and imitation, 81-2 Roman Catholicism, 165, 166 Romania, and social neglect of children, 68-9 Romans 12:1 (NIV), 150 rummage sales, as metaphor for upheavals in history of church, 165-6, 167

salvation. See conversion Salzman, Mark, 29, 42, 43 Saver, Jeffrey, 84 Schizophrenia, 34 Schleiermacher, Friedrich, 116-18 Schore, Allen, 61-2 scripts, and power of story, 83-4, 118 secure attachment, 60, 61, 62, 77, 113-15 Sejnowski, Terrence, 53n5 self: dualism and view of, 13-14; and Great Emergence in contemporary Christianity, 167; importance of narratives in understanding of, 84-5. See also individualism; personhood self-concept, and language, 66 self-organization: and child development, 53-5; and leadership of church, 127-31; personhood and maturation of, shared attention, and child development, 58-9

shared narratives, 87 Shults, LeRon, 18 Siegal, Daniel, 62 socialization, and group therapy, 93 social neuroscience, 33, 34-5 social relationships: child development and experiences of, 52-3, 68-9; Christian maturity and formation of wisdom and virtue, 87; and group size, 136-8; and re-forming of persons, 71-3; and role of church in spiritual formation, 110-11. See also relationality soul: and question of human distinctiveness, 47; and reasons for attending church, 106-108; and translation of nephesh, 17-18; view of in Gnosticism, 23-7, 155. See also body; dualism; embodiment; human nature; spiritual formation; spirituality spatial memory, 73-4 spiritual director, 95 spiritual formation: body and imitation of Christ, 115-18; and church attendance, 107; and disability, 154-5; and dynamic openness of person, III-I3; and social formation of persons, 110-11; through stories, 118-20 spirituality: disembodiment and predominant modern view of, 2-4; narrative about nature of, 119; role of secure attachments in, 113-15; understanding of as ongoing relationship with God, 7 Stassen, Glen, 25-6 stories: and child development, 66-7; and church, 133, 141; and formation of personhood, 82-5; spiritual formation through, 118-20. See also narrative stroke, 30-1, 32 substance abuse, 156. See also drugs temperament, and child development, 55 temporal lobe epilepsy, 43, 44 theology, and narrative, 85 Theory of Mind: and empathy, 63, 64; and imitation, 57; and relationality, 33, 36 2 Thessalonians 3:7-9, 115 Thomas, Owen, 24 thought, influence of actions on, 152 Tickle, Phyllis, 165-7 time, and role of group dynamics in personal formation, 102, 135-9 transformation: good and bad of unconscious habits and, 89-91; and hope for change, 91-2; illustrations of processes

necessary for, 94–8; and models of change, 98–100. *See also* change;

personhood; spiritual formation



178 INDEX

trust, neuroscience and study of development of, 35

unconscious habits, good and bad of, 89–91 universality, and process of change, 93, 98

virtue, and formation of personhood, 85–7 Von Economo neurons, 36–7, 41

Welker, Michael, 116-17

Whiten, Andrew, 33 wisdom, and formation of personhood, 85–7 worship: embodiment of in church, 147–52, 161; and *experiences* versus *services*, 107; Pentecostal forms of, 163; solitary forms of, 111

Wright, N. T., 6n3, 16-17, 19-20

Yalom, Irving, 92-3, 94, 98, 117 Young, Kay, 84