

NOTES

Introduction: Engaging God through All Things

1. Guido de Bres, *Belgic Confession* (Grand Rapids: Faith Alive Christian Resources, 2011), Article 2.
2. John Calvin, *Calvin: Institutes of the Christian Religion*, The Library of Christian Classics (Louisville, KY: Presbyterian Publishing Corporation, 1960), I.xiv.1, Kindle.
3. *Ibid.*, I.v.8; 2.vi.1.
4. Johannes Kepler, letter (April 9/10, 1599) to the Bavarian chancellor Herwart von Hohenburg, in Carola Baumgardt, *Johannes Kepler Life and Letters* (London: Gollancz, 1953), 50.
5. Abraham Kuyper, *Wisdom and Wonder* (Grand Rapids: Christian's Library Press, 2011), 39.
6. Herman Bavinck, *The Philosophy of Revelation* (Ancaster, Ontario: Alev Books, 2011), 20.
7. Walter Brueggemann, *The Prophetic Imagination* (Philadelphia: Fortress Press, 1978), 23.
8. *Ibid.*, 44.
9. Richard J. Foster, *Celebration of Discipline: The Path to Spiritual Growth* (New York: HarperCollins, 1998), 3.
10. *Ibid.*, 2.
11. John Calvin, quoted in Belden Lane, *Ravished by Beauty: The Surprising Legacy of Reformed Spirituality* (New York: Oxford University Press, 2011), 74. I'm indebted to Belden Lane for his thoughts on the revelatory nature of creation and for pointing me to helpful material from several writers.

Chapter 1: Radiation Therapy and the Empirical Mind of God

1. John (Jack) Cunningham, *And I Thought I Came from a Cabbage Patch! (A Memoir)*, 2nd ed. (self-published, 2014), 246–47.
2. Faiz M. Khan, *Our Universe: A Scientific and Religious View of Creation* (Lincoln, NE: iUniverse, 2007), x.
3. *Ibid.*, 175.
4. John C. Polkinghorne, “The Creation and Structure of the Physical World,” Reformation Christian Ministries, Reformation.edu, <https://www.reformation.edu/scripture-science-stott/aarch/pages/06-polkinghorne-creation.htm>.
5. Jacob Van Dyk, phone interview, June 2014, Calgary, Alberta.
6. *Ibid.*
7. *Ibid.*
8. Greg Bootsma, email interview, June 2014.
9. Van Dyk interview.
10. *Ibid.*
11. *Ibid.*

Chapter 2: Supernovae and God’s Passion for Matter

1. From the introduction.
2. Mars Rover researcher/astronomer, email interview, October 2013.
3. Allen Dailey, “How Many Supernovae Explode Each Second in the Universe?” *Astronomy*, August 25, 2008, <https://astronomy.com/magazine/ask-astro/2008/08/how-many-supernovae-explode-each-second-in-the-universe>.
4. Gordon J. Spykman, *Reformational Theology: A New Paradigm for Doing Dogmatics* (Grand Rapids: Eerdmans, 1992), 553.
5. Jürgen Moltmann, quoted in Steven R. Guthrie, *Creator Spirit: The Holy Spirit and the Art of Becoming Human* (Grand Rapids: Baker, 2011), 158.
6. *Ibid.*

7. Richard Mouw, *He Shines in All That's Fair: Culture and Common Grace* (Grand Rapids: Eerdmans, 2001), 35–36.

Chapter 3: Engaging God's Providence through Knees and Fossils

1. Johann H. Diemer, *Nature and Miracle* (Toronto: Wedge Publishing Foundation, 1977), 25.
2. John C. Polkinghorne, *Science and the Trinity: The Christian Encounter with Reality* (New Haven, CT: Yale University Press, 2004).
3. *Ibid.*, 5.
4. *Ibid.*
5. *Ibid.*
6. Laurie Hiemstra, personal interview, Banff, Alberta, 2017.
7. *Ibid.*
8. “The Lord’s Day 1,” *Heidelberg Catechism* (1563), Christian Reformed Church (website), www.crcna.org/sites/default/files/lords_day_1.pdf.
9. John Calvin, *Calvin: Institutes of the Christian Religion*, The Library of Christian Classics (Louisville, KY: Presbyterian Publishing Corporation, 1960), Q&A 1, Kindle.
10. *Ibid.*, I.xvi.4.
11. Gordon J. Spykman, *Reformational Theology: A New Paradigm for Doing Dogmatics* (Grand Rapids: Eerdmans, 1992), 272.
12. *Ibid.*, 275.
13. *Ibid.*, 276.
14. Emily Chung, “One Hell of an Impression,” *CBC News*, February 23, 2018, <https://newsinteractives.cbc.ca/longform/human-footprints-greece>.
15. Neil Shubin, *Your Inner Fish: A Journey into the 3.5-Billion-Year History of the Human Body* (Toronto: Random House, 2008), 12.
16. John C. Polkinghorne, “The Creation and Structure of the Physical World,” Reformation Christian Ministries, [Reformation.edu](http://reformation.edu), <https://www.reformation.edu/scripture-science-stott/aarch/pages/06-polkinghorne-creation.htm>.

17. Abraham Kuyper, *Wisdom and Wonder* (Grand Rapids: Christian's Library, 2011), 39.
18. See Genesis 18 and Exodus 4.
19. "How Fast Are You Moving Right Now?," Business Insider, October 15, 2006, YouTube video, <https://www.youtube.com/watch?v=AMIXzHU-GIU>.
20. Ibid.
21. John Calvin, quoted in W. David Taylor, *The Theatre of God's Glory: Calvin, Creation and the Liturgical Arts* (Grand Rapids: Eerdmans, 2017), 91.

Chapter 4: Sensing God's Presence via a Giant Squid

1. Richard Ellis, *The Search for the Giant Squid* (London: Lyons Press, 1998).
2. Ibid.
3. Ibid.
4. Ibid.
5. "Squid Evolved in Marine Wars More Than 100 Million Years Ago," New Scientist, March 1, 2017, <https://www.newscientist.com/article/2123118-squid-evolved-in-marine-wars-more-than-100-million-years-ago/#:~:text=Cephalopods%20E2%80%93%20the%20tentacled%20creatures%20that,jet%20propulsion%20and%20polarised%20vision>.
6. John Calvin, *Calvin: Institutes of the Christian Religion*, The Library of Christian Classics (Louisville, KY: Presbyterian Publishing Corporation, 1960), I.iii.1, Kindle.
7. Abraham Kuyper, *Wisdom and Wonder* (Grand Rapids: Christian's Library, 2011), 41.
8. John Locke, quoted in John Bolt, ed., *Herman Bavinck: Essays on Religion, Science, and Society* (Grand Rapids: Baker Academic, 2008), 258.
9. Cara Giaimo, "Found: Gravitational Waves!," Atlas Obscura, February 11, 2016, <https://www.atlasobscura.com/articles/found-gravitational-waves>.

10. John Van Sloten, "Gravitational Waves and the Voice of God," *ThinkChristian*, February 16, 2016, https://web.archive.org/web/20210726222431/https://thinkchristian.net/gravitational-waves-and-the-voice-of-god?utm_campaign=TC_RSS_Campaign&utm_source=hs_email&utm_medium=email&utm_content=26346429&_hsenc=p2ANqtz--skYVzNvQuOJ6xF0kIZ3_whrBJ-RVuSSbf6f2EcWKp_k83Is8WWb6fNFF0vF-FOV0aiX4MtcBaLx6bpuphJB-OTKchxA&_hsmi=26346429.
11. Susan Ashbook Harvey, *Scenting Salvation: Ancient Christianity and the Olfactory Imagination* (Los Angeles: University of California, 2006), 6.
12. *Ibid.*, 125.
13. See Matthew 6:26; 15:10; 26:26; and Luke 24:39.
14. St. Augustine, *The Confessions of Saint Augustine*, trans. Rex Warner (New York: Signet, 2001), XIII, 11, 12.
15. Belden C. Lane, *Ravished by Beauty: The Surprising Legacy of Reformed Spirituality* (New York: Oxford University Press, 2011), 92.
16. *Ibid.*, 103.

Chapter 5: Tree Branches, Wound Healing, and an Interdependent God

1. Vern Peters, telephone interview, April 2014.
2. *Ibid.*
3. Epigenetics researcher, personal interview, Calgary, Alberta, December 2012.
4. Cymbeline T. Culiati, educator and cofounder and chief scientific officer of NellOne Therapeutics, Inc. (Oak Ridge, Tennessee), email interview, April 2011.
5. Vern Peters interview.
6. *Ibid.*
7. Lewis Thomas, *Lives of a Cell: Notes of a Biology Watcher* (New York: Penguin Group, 1978), 4.

8. Ivan Semeniuk, "How This Year's Gairdner Winners Are Lighting Up the Brain and Deciphering the Marks on Our Genes," *The Globe and Mail*, March 27, 2018, <https://www.theglobeandmail.com/canada/article-how-this-years-gairdner-winners-are-lighting-up-the-brain-and/>.
9. Thomas, *Lives of a Cell*, 54.
10. George M. Marsden, *Jonathan Edwards: A Life* (New Haven, CT: Yale University Press, 2003), Kindle location 6334.
11. Edward Dommen and James D. Bratt, eds., *John Calvin Rediscovered: The Impact of His Social and Economic Thought* (Louisville, KY: Westminster John Knox Press, 2007), 53.
12. Ibid.
13. John Calvin, *Calvin: Institutes of the Christian Religion*, The Library of Christian Classics (Louisville, KY: Presbyterian Publishing Corporation, 1960), Kindle location 18504.

Chapter 6: Language Acquisition and a Multilingual God

1. Deb Roy, "The Birth of a Word," TED Conferences, March 2011, https://www.ted.com/talks/deb_roy_the_birth_of_a_word?language=en.
2. St. Augustine, *The First Catechetical Instruction (De Catechizandis Rudibus)*, trans. Joseph P. Christopher (Westminster, MD: The Newman Press, 1962), 37.
3. Steven Weinberg, *The First Three Minutes* (New York: Basic Books, 1988), 14.
4. John C. Polkinghorne, *Science and the Trinity: The Christian Encounter with Reality* (New Haven, CT: Yale University Press, 2004), 63.
5. C. S. Lewis, *The Weight of Glory: And Other Addresses* (New York: HarperOne, 2001), 30–31.
6. John Calvin, *Calvin: Institutes of the Christian Religion*, The Library of Christian Classics (Louisville, KY: Presbyterian Publishing Corporation, 1960), I.iii.1, Kindle.

7. Marcelo Gleiser, in Krista Tippet, “Marilynne Robinson and Marcelo Gleiser: The Mystery We Are,” *On Being* (podcast), January 8, 2012, <https://onbeing.org/programs/marilynne-robinson-marcelo-gleiser-the-mystery-we-are/>.
8. Alvin Plantinga, *Warranted Christian Belief* (New York: Oxford University Press, 2000), 175.
9. Michael Polanyi was a scientist and philosopher who first used the label *tacit knowledge*, meaning knowledge we acquire through experience but is difficult to express in words, “knowing more than we can tell.” See Anita Kothari et al., “The Use of Tacit and Explicit Knowledge in Public Health,” *Implementation Science*, March 20, 2012, <https://implementationscience.biomedcentral.com/articles/10.1186/1748-5908-7-20>.
10. Lesslie Newbigin, *Proper Confidence: Faith, Doubt, and Certainty in Christian Discipleship* (Grand Rapids: Eerdmans, 1995), 90.
11. Thomas Soifer, quoted in Douglas Martin, “Gerry Neugebauer, Pioneer in Space Studies, Dies at 82,” *New York Times*, October 2, 2014, <https://www.nytimes.com/2014/10/03/us/gerry-neugebauer-pioneer-in-space-studies-dies-at-82.html#:~:text=He%20was%2082.,Dr.>
12. L. Alonso Schökel, *Manual of Hebrew Poetics* (Rome: Gregorian University Press, 1987), 104.
13. Newbigin, *Proper Confidence*, 42.
14. *Ibid.*, 58.
15. *Ibid.*, 59.
16. Martin Buber, quoted in Newbigin, *Proper Confidence*, 60.
17. Newbigin, *Proper Confidence*, 37.
18. Richard A. Muller, “Crede, ut intelligas,” “Credo, ut intelligam,” in *Dictionary of Latin and Greek Theological Terms* (Grand Rapids: Baker, 1985).
19. Jan Karon, *A Continual Feast* (New York: Viking, 2006), 6.
20. Newbigin, *Proper Confidence*, 76.

21. Donald N. Petcher, "What Does It Mean to Be Kuyperian?," *The Kuyperian*, April 1996, <http://kuyperian.blogspot.com/2004/10/what-does-it-mean-to-be-kuyperian.html>.
22. Polkinghorne, *Science and the Trinity*, 90.
23. Ibid.
24. Ibid., 92.
25. Ibid.
26. The Nicene Creed, <https://www.crcna.org/welcome/beliefs/creeds/nicene-creed>.
27. "How Fast Are You Moving Right Now?," Business Insider, October 15, 2006, YouTube video, <https://www.youtube.com/watch?v=AMIXzHU-GIU>.
28. Nicholas Chevalier et al., "Myelination Is Associated with Processing Speed in Early Childhood: Preliminary Insights," National Library of Medicine, October 6, 2015, <https://pubmed.ncbi.nlm.nih.gov/26440654/>.

Chapter 7: God's Beauty in DNA Repair Mechanisms

1. Thomas Dubay, *The Evidential Power of Beauty: Science and Theology Meet* (San Francisco: Ignatius Press, 2006), 56.
2. Dustin Pearson, personal interview, Calgary, Alberta, 2017.
3. Rose Eveleth, "There are 37.2 Trillion Cells in Your Body," *Smithsonian Magazine*, October 24, 2013, <https://www.smithsonianmag.com/smart-news/there-are-372-trillion-cells-in-your-body-4941473/>.
4. Stephen P. Jackson and Jiri Bartek, "The DNA-Damage Response in Human Biology and Disease," *Nature*, October 22, 2009, <https://www.nature.com/articles/nature08467>.
5. Pearson interview.
6. Douglas Copeland, *Hey Nostradamus!* (Toronto: Random House, 2004), 233.
7. John Bolt, ed., *Herman Bavinck: Essays on Religion, Science, and Society* (Grand Rapids: Baker Academic, 2008), 247.

8. Ibid.
9. Ibid., 256.
10. See, for example, Psalms 19, 29, and 104. Allen C. Myers, “Glory,” in *The Eerdmans Bible Dictionary* (Grand Rapids: Eerdmans, 1987), 420.
11. Allen C. Myers, “Glory,” in *The Eerdmans Bible Dictionary* (Grand Rapids: Eerdmans, 1987), 420.
12. John Calvin, *Commentary on the Book of the Prophet Isaiah*, vol. 4 (Edinburgh: Calvin Translation Society, 1853), 194.
13. John Calvin, *Commentaries of the First Book of Moses Called Genesis*, vol. 4 (Woodstock, Ontario: Devoted Publishing, 2018), 20.
14. Philip Sheldrake, “Calvinist Spirituality” in *The New SCM Dictionary of Christian Spirituality* (London: SCM, 2005).
15. Pearson interview.
16. Ibid.
17. St. Irenaeus of Lyons, *The Third Book of St. Irenaeus Against Heresies*, ed. Henry Deane (Oxford: Clarendon Press, 1874), 4.34.5–7.
18. Pearson interview.
19. Bolt, *Herman Bavinck*, 259.
20. Thomas Dubay, *The Evidential Power of Beauty: Science and Theology Meet* (San Francisco: Ignatius, 2006), 16–17.
21. Bolt, *Herman Bavinck*, 256.
22. Dubay, *The Evidential Power of Beauty*, 20.
23. Richard J. Mouw, *Abraham Kuyper: A Short and Personal Introduction* (Grand Rapids: Eerdmans, 2011), 92.
24. St. Irenaeus of Lyons, “Man Fully Alive,” *Humanum Quarterly*, issue 1, 2019, quoting from *Against Heresies*, book IV, chapter 10, no. 6–7, <https://humanumreview.com/articles/man-fully-alive>.
25. Dubay, *The Evidential Power of Beauty*, 78.
26. Ibid., 79.

27. Ibid., 99.

28. St. Augustine, *The Confessions of Saint Augustine*, trans. Rex Warner (New York: Signet, 2001), 235.

Chapter 8: Naming Creation via Neuroscience

1. A young neuroscientist, personal interview, Calgary, Alberta, May 2013.
2. Ibid.
3. Hebrews 11:13 says, “All these people were still living by faith when they died. They did not receive the things promised; they only saw them and welcomed them from a distance, admitting that they were foreigners and strangers on earth.”
4. Anita Li, “Scientists Determine Earth Has 8.7 Million Species,” *Globe and Mail*, August 23, 2011, <https://www.theglobeandmail.com/technology/science/scientists-determine-earth-has-87-million-species/article591529/>.
5. Allen C. Myers, “Name,” in *The Eerdmans Bible Dictionary* (Grand Rapids: Eerdmans, 1987), 747.
6. Vilayanur Ramachandran, “The Neurons That Shaped Civilization,” TED Conference, November 2009, https://www.ted.com/talks/vilayanur_ramachandran_the_neurons_that_shaped_civilization?language=en.
7. Ibid.
8. Laser Interferometer Gravitational-Wave Observatory.
9. Ramachandran, “The Neurons That Shaped Civilization.”
10. Neuroscientist interview.
11. Murray Gell-Mann, “Beauty, Truth and . . . Physics?,” TED Conference, March 2007, https://www.ted.com/talks/murray_gell_mann_beauty_truth_and_physics?language=en.
12. Catherine La Cugna, quoted in Belden C. Lane, *Ravished by Beauty: The Surprising Legacy of Reformed Spirituality* (New York: Oxford University Press, 2011), 67.

13. Covenant Protestant Reformed Church, “Christ Speaking Through Preaching,” <https://cprc.co.uk/quotes/christspeakingpreaching/>.
14. Lane, *Ravished by Beauty*, 91.

Chapter 9: God’s Hydrological Heart in a River

1. Parts of this chapter were adapted from John Van Sloten, “God Was the First Scientist,” *Calgary Herald*, September 14, 2019, <https://calgaryherald.com/opinion/columnists/god-was-the-first-scientist>; John Van Sloten, “God’s Witness in the Cosmos,” *Christian Courier*, October 22, 2018, <https://www.christiancourier.ca/gods-witness-in-the-cosmos/>.
2. Dr. Masaki Hayashi, personal interview, University of Calgary, April 2012.
3. Mary Midgley, quoted by Alister E. McGrath, “Science and Faith: Conflicting or Enriching?,” *Regent InterFace*, September 18, 2018, video, 18:15, <https://www.regentinterface.com/topics/science-and-faith/>.
4. *Ibid.*, 24:02.
5. Gordon J. Spykman, *Reformational Theology: A New Paradigm for Doing Dogmatics* (Grand Rapids: Eerdmans, 1992), 270.
6. John Calvin, *Calvin: Institutes of the Christian Religion*, The Library of Christian Classics (Louisville, KY: Presbyterian Publishing Corporation, 1960), 2.ii.15, Kindle.
7. Daryll Harrison, Zoom interview, Calgary, November 2020.

Epilogue: God’s Vision for Creation

1. David Buller, “Creation Is the Temple Where God Rests,” *BioLogos*, March 6, 2015, <https://biologos.org/articles/series/reflections-on-the-lost-world-of-genesis-1-by-john-walton/creation-is-the-temple-where-god-rests>.