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# Corporate Entrepreneurship 2.0: Research Development and Future Directions

#### Donald F. Kuratko

The Jack M. Gill Distinguished Chair of Entrepreneurship,
Professor of Entrepreneurship,
The Kelley School of Business,
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# Contents

1	Intr	oduction	2
2	Res	Research on Corporate Entrepreneurship Through the Decade	
	2.1	Decade of the 1970s	6
	2.2	Decade of the 1980s	7
	2.3	Decade of the 1990s	8
	2.4	Decade of the 2000s	10
	2.5	Decade of the 2010s	11
3	Research Domains of Corporate Entrepreneurship		13
	3.1	Corporate Venturing	14
	3.2	Strategic Entrepreneurship	16
	3.3	Entrepreneurial Orientation	19
4	Specific Topics Within Corporate Entrepreneurship		20
	4.1	Implementation of Corporate Entrepreneurship	20
	4.2	Focus on Management Levels	21
	4.3	Development of Models and Metrics for Corporate	
		Entrepreneurship	23
	4.4	Emerging Specialized Topics	29
5	5 Future Directions		34

# Corporate Entrepreneurship 2.0: Research Development and Future Directions

Donald F. Kuratko

The Jack M. Gill Distinguished Chair of Entrepreneurship, Professor of Entrepreneurship, The Kelley School of Business, Indiana University, USA; dkuratko@indiana.edu

#### ABSTRACT

Corporate entrepreneurship (CE) as a valid and effective area of research has real and tangible benefits for emerging scholars because their work will significantly influence this important strategy. The theoretical and empirical knowledge on CE has evolved over the last forty-five years beginning very slowly and growing in importance through the decades. Despite this evolution and recent expansion in corporate entrepreneurship (CE) research, the theoretical and empirical knowledge about the domain of CE and the entrepreneurial behavior on which it is based are still key issues that warrant a deeper understanding. Ongoing scholarly work has also raised new and important research questions and identified further theoretical avenues requiring exploration. The purpose of this monologue is to organize and review the significant research work that has been done in the corporate entrepreneurship (CE) literature over the years and then suggest some of the potential future directions for CE researchers

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# 1

#### Introduction

Corporate entrepreneurship (CE) is a term used to describe entrepreneurial behavior inside established small, mid-sized, and large organizations (Stopford and Baden-Fuller, 1994). Other popular or related terms include organizational entrepreneurship, intrapreneurship, corporate venturing, and strategic entrepreneurship (Pinchott, 1985; Morris et al., 2011). Regardless of the reason the firm decides to engage in CE, it has become a major strategy in all types of organizations (Dess et al., 1999; Ireland et al., 2009).

Corporate entrepreneurship (CE) as a valid and effective area of research has real and tangible benefits for emerging scholars because their work will significantly impact an emerging strategy. The theoretical and empirical knowledge on CE has evolved over the last forty-five years beginning very slowly and growing in importance through the decades. While the inherent value of entrepreneurial action on the part of established organizations has been established, there remains a greater need for further research about CE in organizational settings. Fortunately, knowledge accumulation on the topic of CE has been occurring at a rapid rate, and many of the elements essential to constructing a theoretically grounded understanding of the domains of CE can now be identified.

Introduction 3

It is clear that researchers have moved beyond the traditional product and service innovations to pioneering innovation in processes, value chains, business models, and all functions of management (Govindarajan and Trimble, 2005). All organizations are facing a new global reality requiring innovation, courage, risk-taking, and entrepreneurial leadership (Kuratko and Morris, 2013). As Kuratko (2009) pointed out, organizations must realize "the entrepreneurial imperative of the  $21^{st}$  Century" is now at hand. Ireland et al. (2009) emphasized that to simultaneously develop and nurture today's and tomorrow's competitive advantages, advantages that are grounded in innovation, firms increasingly rely on corporate entrepreneurship. Firms that exhibit corporate entrepreneurship are typically viewed as dynamic, flexible entities prepared to take advantage of new business opportunities when they arise (Kuratko et al., 2012). Yet, despite the fact that entrepreneurship and innovation are highly touted as a most viable strategy for successful results in today's corporations, the fact remains that successful implementation of corporate innovation is quite elusive for most companies Kuratko et al. (2014b).

Ongoing scholarly work has also raised new and important research questions and identified further theoretical avenues requiring exploration. Examples include: cognitive processes of corporate entrepreneurs (Corbett and Hmieleski, 2007); the role of personal and organizational networks in the CE process (e.g., Hayton and Kelley, 2006; Kelley et al., 2009); the role of national cultural and institutional factors influencing processes and outcomes in CE (Dess et al., 2003; Hayton et al., 2002); the influence of resource constrained environments and the extension of CE to small and medium sized firms and not-for-profit institutions (e.g., Hayton, 2005; Fini et al., 2012). However, the field needs more rigorous global research to understand the moderators, mediating processes, and what constitutes relevant CE outcomes (the dependent variable issue), as well as determining the economic impact of CE activity.

Therefore, despite the recent expansion in corporate entrepreneurship (CE) research, the theoretical and empirical knowledge about the domain of CE and the entrepreneurial behavior on which it is based are still key issues that warrant a deeper understanding. Ongoing scholarly 4 Introduction

work has also raised new and important research questions and identified further theoretical avenues requiring exploration.

The purpose of this monologue is to organize and review the significant research work that has been done in the corporate entrepreneurship (CE) literature over the years and then suggest some of the potential future directions for CE researchers.

- Ahuja, G. and C. M. Lambert. 2001. "Entrepreneurship in the large corporation: a longitudinal study of how established firms create breakthrough inventions". Strategic Management Journal. 22(6–7): 521–543.
- Anderson, B. S., P. M. Kreiser, D. F. Kuratko, J. S. Hornsby, and Y. Eshima. 2015. "Reconceptualizing Entrepreneurial Orientation". Strategic Management Journal. 36(10): 1579–1596.
- Antonic, B. and R. D. Hisrich. 2002. "Intrapreneurship: Constructive refinement and cross-cultural validation". *Journal of Business Venturing*. 16: 495–527.
- Basu, S., C. C. Phelps, and S. Kotha. 2016. "Search and integration in external venturing: An inductive examination of corporate venture capital units". *Strategic Entrepreneurship Journal*. 10(2): 129–152.
- Behrens, J. and H. Patzelt. 2016. "Corporate entrepreneurship managers' project terminations: Integrating portfolio-level, individual-level, and firm-level effects". *Entrepreneurship Theory and Practice*. 40(4): 815–842.
- Biniari, M. G. 2012. "The emotional embeddedness of corporate entrepreneurship: The case of envy". *Entrepreneurship Theory and Practice*. 36(1): 141–170.

Birkinshaw, J. 1997. "Entrepreneurship in multinational corporations: The characteristics of subsidiary initiatives". *Strategic Management Journal*. 18: 207–229.

- Borch, O. J., M. Huse, and K. Senneseth. 1999. "Resource configuration, competitive strategies, and corporate entrepreneurship: An empirical examination of small firms". *Entrepreneurship Theory and Practice*. 24(1): 49–70.
- Brazeal, D. V. 1993. "Organizing for internally developed corporate ventures". *Journal of Business Venturing*. 8: 75–90.
- Brundin, E., H. Patzelt, and D. A. Shepherd. 2008. "Managers' emotional displays and employees' willingness to act entrepreneurially". Journal of Business Venturing. 23(2): 221–243.
- Burgelman, R. A. 1983a. "A process model of internal corporate venturing in the major diversified firm". *Administrative Science Quarterly*. 28(2): 223–244.
- Burgelman, R. A. 1983b. "Corporate entrepreneurship and strategic management: Insights from a process study". *Management Science*. 23: 1349–1363.
- Burgelman, R. A. 1984. "Designs for corporate entrepreneurship in established firms". California Management Review. 26(3): 154–166.
- Corbett, A. C. and K. M. Hmieleski. 2007. "The conflicting cognitions of corporate entrepreneurs". *Entrepreneurship Theory and Practice*. 31: 103–121.
- Covin, J. G., R. P. Garrett, J. P. Gupta, D. F. Kuratko, and D. A. Shepherd. 2017. "The interdependence of planning and learning among internal corporate ventures". *Entrepreneurship Theory and Practice*. In Press.
- Covin, J. G., R. P. Garrett, D. F. Kuratko, and D. A. Shepherd. 2015. "Value proposition evolution and the performance of internal corporate ventures". *Journal of Business Venturing*. 30(5): 749–774.
- Covin, J. G. and D. F. Kuratko. 2010. "The concept of corporate entrepreneurship". In: *The Blackwell Encyclopedia of Technology and Innovation Management*. Ed. by V. K. Narayanan and G. C. O'Connor. UK: West Sussex, Wiley Publishers. 207–213.

Covin, J. G. and M. P. Miles. 1999. "Corporate entrepreneurship and the pursuit of competitive advantage". *Entrepreneurship Theory and Practice*. 23(3): 47–64.

- Covin, J. G. and M. P. Miles. 2007. "Strategic use of corporate venturing". *Entrepreneurship Theory and Practice*. 31(2): 183–207.
- Covin, J. G. and D. P. Slevin. 1989. "Strategic management of small firms in hostile and benign environments". *Strategic Management Journal*. 10: 75–87.
- Covin, J. G. and D. P. Slevin. 1991. "A conceptual model of entrepreneurship as firm behavior". *Entrepreneurship Theory and Practice*. 16: 7–25.
- Covin, J. G. and W. J. Wales. 2012. "The measurement of entrepreneurial orientation". *Entrepreneurship Theory and Practice*. 36(4): 677–702.
- Csikszentmihalyi, M. 1996. Creativity: Flow and the psychology of discovery and invention. New York: Harper Collins.
- Cucculelli, M. and C. Bettinelli. 2015. "Business models, intangibles and firm performance: Evidence on corporate entrepreneurship from Italian manufacturing SMEs". Small Business Economics. 45(2): 329–350.
- Dess, G. G., R. D. Ireland, S. A. Zahra, S. W. Floyd, J. I. Janney, and P. J. Lane. 2003. "Emerging issues in corporate entrepreneurship". *Journal of Management.* 29: 351–378.
- Dess, G. G., G. T. Lumpkin, and J. G. Covin. 1997. "Entrepreneurial strategy making and firm performance: Tests of contingency and configurational models". *Strategic Management Journal*. 18: 677–695.
- Dess, G. G., G. T. Lumpkin, and J. E. McGee. 1999. "Linking corporate entrepreneurship to strategy, structure, and process: Suggested research directions". *Entrepreneurship Theory and Practice*. 23(3): 85–102.
- Dougherty, D. 1995. "Managing your core incompetencies for corporate venturing". Entrepreneurship Theory and Practice. 19(3): 113–135.
- Duncan, W. J., P. M. Ginter, A. C. Rucks, and T. D. Jacobs. 1988. "Intrapreneuring and the reinvention of the corporation". *Business Horizons*. 31(3): 16–21.

Fini, R., R. Grimaldi, G. L. Marzocchi, and M. Sobrero. 2012. "The determinants of corporate entrepreneurial intention within small and newly established firms". *Entrepreneurship Theory and Practice*. 36: 387–414.

- Fisher, G., D. F. Kuratko, J. Bloodgood, and J. S. Hornsby. 2017. "Legitimate to whom? The challenge of audience diversity and new venture legitimacy". *Journal of Business Venturing*. 32(1): 52–71.
- Fry, A. 1987. "The Post-it-Note: An intrapreneurial success". SAM Advanced Management Journal. 52(3): 4–9.
- Fulop, L. 1991. "Middle managers: Victims or vanguards of the entrepreneurial movement?" *Journal of Management Studies*. 28(1): 25–44.
- Garvin, D. A. and L. C. Levesque. 2006. "Meeting the challenge of corporate entrepreneurship". *Harvard Business Review*. 84(10): 102–112.
- Ginsberg, A. and M. Hay. 1994. "Confronting the challenges of corporate entrepreneurship: Guidelines for venture managers". *European Management Journal.* 12: 382–389.
- Goodale, J. C., D. F. Kuratko, J. S. Hornsby, and J. G. Covin. 2011. "Operations management and corporate entrepreneurship: The moderating effect of operations control on the antecedents of corporate entrepreneurial activity in relation to innovation performance". *Journal of Operations Management*. 29(2): 116–127.
- Govindarajan, V. and C. Trimble. 2005. "Building breakthrough businesses within established organizations". *Harvard Business Review*. 83(5): 58–68.
- Greene, P. G., C. Brush, and M. M. Hart. 1999. "The corporate venture champion: A resource-based approach to role and process". Entrepreneurship Theory and Practice. 23(3): 103–122.
- Hanan, M. 1976. "Venturing corporations—Think small to stay strong". Harvard Business Review. 54(3): 139–148.
- Hayton, J. C. 2005. "Competing in the new economy: The effect of intellectual capital on corporate entrepreneurship in high technology new ventures". RandD Management. 35(2): 137–155.

Hayton, J. C., G. George, and S. A. Zahra. 2002. "National culture and entrepreneurship: A review of behavioral research". *Entrepreneurship Theory and Practice*. 26: 33–52.

- Hayton, J. C. and D. Kelley. 2006. "A competency-based framework for promoting corporate entrepreneurship". Human Resource Management. 45(3): 407–427.
- Hemingway, C. A. 2005. "Personal values as a catalyst for corporate social entrepreneurship". *Journal of Business Ethics*. 60(3): 233–249.
- Hill, R. M. and J. D. Hlavacek. 1972. "The venture team: A new concept in marketing organizations". *Journal of Marketing*. 36: 44–50.
- Hisrich, R. D. and M. P. Peters. 1986. "Establishing a new business venture unit within a firm". *Journal of Business Venturing*. 1: 307–322.
- Hitt, M. A., R. D. Ireland, S. M. Camp, and D. L. Sexton. 2001. "Strategic entrepreneurship: Entrepreneurial strategies for wealth creation". Strategic Management Journal. 22(Special Issue): 479–491.
- Hitt, M. A., R. D. Ireland, D. G. Sirmon, and C. A. Trahms. 2011. "Strategic entrepreneurship: Creating value for individuals, organizations, and society". *Academy of Management Perspectives*. 25(2): 57–75.
- Holt, D. T., M. W. Rutherford, and G. R. Clohessy. 2007. "Corporate entrepreneurship: An empirical look at individual characteristics, context, and process". *Journal of Leadership and Organizational* Studies. 13(4): 40–54.
- Hornsby, J. S., D. F. Kuratko, D. A. Shepherd, and J. P. Bott. 2009. "Managers' corporate entrepreneurial actions: Examining perception and position". *Journal of Business Venturing*. 24(3): 236–247.
- Hornsby, J. S., D. F. Kuratko, and S. A. Zahra. 2002. "Middle managers' perception of the internal environment for corporate entrepreneurship: Assessing a measurement scale". *Journal of Business Venturing*. 17: 49–63.
- Hornsby, J. S., D. W. Naffziger, D. F. Kuratko, and R. V. Montagno. 1993. "An interactive model of the corporate entrepreneurship process". *Entrepreneurship Theory Practice*. 17: 29–37.

Howell, J. M. and C. A. Higgins. 1990. "Champions of technological innovation". *Administrative Science Quarterly*. 35(2): 317–341.

- Ireland, R. D., J. G. Covin, and D. F. Kuratko. 2009. "Conceptualizing corporate entrepreneurship strategy". *Entrepreneurship Theory Practice*. 33: 19–46.
- Ireland, R. D., M. A. Hitt, S. M. Camp, and D. L. Sexton. 2001. "Integrating entrepreneurship and strategic management actions to create firm wealth". *Academy of Management Executive*. 15(1): 49–63.
- Ireland, R. D., M. A. Hitt, and D. G. Sirmon. 2003. "A model of strategic entrepreneurship: the construct and its dimensions". *Journal of Management*. 29(6): 963–98.
- Ireland, R. D., D. F. Kuratko, and M. H. Morris. 2006a. "A health audit for corporate entrepreneurship: Innovation at all levels—Part 2". *Journal of Business Strategy*. 27(2): 21–30.
- Ireland, R. D., D. F. Kuratko, and M. H. Morris. 2006b. "A health audit for corporate entrepreneurship: Innovation at all levels—Part I". *Journal of Business Strategy*. 27(1): 10–17.
- Ireland, R. D. and J. W. Webb. 2007. "Strategic entrepreneurship: creating competitive advantage through streams of innovation". *Business Horizons*, 50: 49–59.
- Jennings, D. F. and J. R. Lumpkin. 1989. "Functioning modeling corporate entrepreneurship: An empirical analysis". *Journal of Management*. 15(3): 485–502.
- Jennings, D. F. and D. M. Young. 1990. "An empirical comparison between objective and subjective measures of the product innovation domain of corporate entrepreneurship". *Entrepreneurship Theory and Practice*. 15(1): 53–66.
- Kang, J. H., J. G. Matusik, T. Y. Kim, and J. M. Phillips. 2016. "Interactive effects of multiple organizational climates on employee innovative behavior in entrepreneurial firms: A cross-level investigation". *Journal of Business Venturing*. 31(6): 628–642.
- Kanter, R. M. 1985. "Supporting innovation and venture development in established companies". *Journal of Business Venturing*. 1: 47–60.

Kearney, C. and M. H. Morris. 2015. "Strategic renewal as a mediator of environmental effects on public sector performance". *Small Business Economics*. 45(2): 425–445.

- Keil, T. 2004. "Building external corporate venturing capability". *Journal of Management Studies*. 41(5): 799–825.
- Kellermanns, F. W. and K. A. Eddleston. 2006. "Corporate entrepreneurship in family firms: A family perspective". *Entrepreneurship Theory and Practice*. 30(6): 809–830.
- Kelley, D. J., L. Peters, and G. O'Connor. 2009. "Intra-organizational networking for innovation-based corporate entrepreneurship". *Journal of Business Venturing*. 24: 221–235.
- Ketchen, D. J., R. D. Ireland, and C. C. Snow. 2008. "Strategic entrepreneurship, collaborative innovation, and wealth creation". *Strategic Entrepreneurship Journal*. 1(3–4): 371–385.
- Krackhardt, D. 1995. "Entrepreneurial opportunities in an entrepreneurial firm: A structural approach". Entrepreneurship Theory and Practice. 19(3): 53–70.
- Kuratko, D. F. 2007. Corporate entrepreneurship. Foundations and Trends in Entrepreneurship. Hanover, MA: Now Publishers.
- Kuratko, D. F. 2009. "The entrepreneurial imperative of the  $21^{st}$  century". Business Horizons. 52: 421–428.
- Kuratko, D. F. 2010. "Corporate entrepreneurship: An introduction and research review". In: *The Handbook of Entrepreneurship Research:* An Interdisciplinary Survey and Introduction. Ed. by Z. J. Acs and D. B. Audretsch. second. Springer Publishers. 129–164.
- Kuratko, D. F. 2017. "Middle Managers: The Lynchpins in Corporate Entrepreneurship". In: *Handbook of Research on Middle Management and the Strategy Process*. Ed. by S. Floyd and B. Wooldridge. In Press. Edward Elgar Publishing.
- Kuratko, D. F. and D. B. Audretsch. 2013. "Clarifying the domains of corporate entrepreneurship". *International Entrepreneurship and Management Journal.* 9(3): 323–335.
- Kuratko, D. F., J. G. Covin, and R. P. Garrett. 2009. "Corporate venturing: Insights from actual performance". *Business Horizons*. 52(5): 459–467.

Kuratko, D. F., J. G. Covin, and J. S. Hornsby. 2014a. "Why implementing corporate innovation is so difficult". *Business Horizons*. 57(5): 647–655.

- Kuratko, D. F., G. Fisher, J. Bloodgood, and J. S. Hornsby. 2017. "The Paradox of New Venture Legitimation Within an Entrepreneurial Ecosystem". *Small Business Economics*. In Press.
- Kuratko, D. F., M. G. Goldsby, and J. S. Hornsby. 2012. *Innovation acceleration: Transforming organizational thinking*. Upper Saddle River, NJ: Pearson/Prentice Hall.
- Kuratko, D. F., J. S. Hornsby, and J. G. Covin. 2014b. "Diagnosing a firm's internal environment for corporate entrepreneurship". *Business Horizons*. 57(1): 37–47.
- Kuratko, D. F., J. S. Hornsby, and M. G. Goldsby. 2004. "Sustaining corporate entrepreneurship: A proposed model of perceived implementation/outcome comparisons at the organizational and individual levels". *International Journal of Entrepreneurship and Innovation*. 5(2): 77–89.
- Kuratko, D. F., R. D. Ireland, J. G. Covin, and J. S. Hornsby. 2005a. "A model of middle-level managers' entrepreneurial behavior". *Entrepreneurship Theory and Practice*. 29: 699–716.
- Kuratko, D. F., R. V. Montagno, and J. S. Hornsby. 1990. "Developing an entrepreneurial assessment instrument for an effective corporate entrepreneurial environment". *Strategic Management Journal*. 11(Special Issue): 49–58.
- Kuratko, D. F. and M. H. Morris. 2013. *Entrepreneurship and leadership*. Cheltenham, UK: Edward Elgar.
- Kuratko, D. F., J. S. Hornsby, and J. W. Bishop. 2005b. "Managers' corporate entrepreneurial actions and job satisfaction". *International Entrepreneurship Management Journal*. 1(3): 275–291.
- Liedtka, J., A. King, and K. Bennett. 2015. Solving Problems with Design Thinking: 10 Stories of What Works. New York: Columbia Business School Publishing.

Ling, Y., Z. Simsek, M. H. Lubatkin, and J. F. Veiga. 2008. "Transformational leadership's role in promoting corporate entrepreneurship: Examining the CEO-TMT interface". *Academy of Management Journal*. 51(3): 557–576.

- Lumpkin, G. T., C. C. Cogliser, and D. R. Schneider. 2009. "Understanding and measuring autonomy: An entrepreneurial orientation perspective". *Entrepreneurship Theory and Practice*. 33(1): 47–69.
- Lumpkin, G. T. and G. G. Dess. 1996. "Clarifying the entrepreneurship orientation construct and linking it to performance". Academy of Management Review. 21: 135–172.
- Lumpkin, G. T. and G. G. Dess. 2001. "Linking two dimensions of entrepreneurial orientation to firm performance: The moderating role of environment and industry life cycle". *Journal of Business Venturing*. 16(5): 429–452.
- Lyngsie, J. and N. J. Foss. 2017. "The more, the merrier? Women in top-management teams and entrepreneurship in established firms". Strategic Management Journal. 38(3): 487–505.
- Marvel, M. R., A. Griffin, J. Hebda, and B. Vojak. 2007. "Examining the technical corporate entrepreneurs' motivation: Voices from the field". *Entrepreneurship Theory and Practice*. 31(5): 753–768.
- McGrath, R. G., S. Venkataraman, and I. C. MacMillan. 1994. "The advantage chain: Antecedents to rents from internal corporate ventures". *Journal of Business Venturing*. 9: 351–369.
- Miles, M. P. and J. G. Covin. 2002. "Exploring the practice of corporate venturing: Some common forms and their organizational implications". *Entrepreneurship Theory and Practice*. 26(3): 21–40.
- Miller, D. and P. H. Friesen. 1982. "Innovation in conservative and entrepreneurial firms: Two models of strategic momentum". *Strategic Management Journal*. 3: 1–25.
- Minola, T., M. Brumana, G. Campopiano, R. P. Garrett, and L. Cassia. 2016. "Corporate venturing in family business: A developmental approach of the enterprising family". *Strategic Entrepreneurship Journal*. 10(4): 395–412.

Morris, M. H., D. F. Kuratko, and J. G. Covin. 2011. *Corporate entrepreneurship and innovation*. 3<sup>rd</sup>. South-Western: Thomson Publishers.

- Morris, M. H. and J. D. Trotter. 1990. "Institutionalizing entrepreneurship in a large company: A case study at ATandT". *Industrial Marketing Management*. 19: 131–134.
- Morse, C. W. 1986. "The delusion of intrapreneurship". *Long Range Planning*. 19(6): 92–95.
- Narayanan, V. K., Y. Yang, and S. A. Zahra. 2009. "Corporate venturing and value creation: A review and proposed framework". *Research Policy*. 38(1): 58–76.
- Nason, R. S., A. McKelvie, and G. T. Lumpkin. 2015. "The role of organizational size in the heterogeneous nature of corporate entrepreneurship". *Small Business Economics*. 45(2): 279–304.
- Pearce, J. A., T. R. Kramer, and D. K. Robbins. 1997. "Effects of managers' entrepreneurial behavior on subordinates". *Journal of Business Venturing*. 12: 147–160.
- Peterson, R. and D. Berger. 1972. "Entrepreneurship in organizations". Administrative Science Quarterly. 16: 97–106.
- Pinchott, G. 1985. Intrapreneurship. New York: Harper and Row.
- Quinn, J. B. 1985. "Managing innovation: Controlled Chaos". *Harvard Business Review*. 63(3): 73–84.
- Rauch, A., J. Wiklund, G. Lumpkin, and M. Frese. 2009. "Entrepreneurial orientation and business performance". *Entrepreneurship Theory and Practice*. 33: 761–787.
- Ren, C. R. and C. Guo. 2011. "Middle managers' strategic role in the corporate entrepreneurial process: Attention-based effects". *Journal of Management*. 37(6): 1586–1610.
- Rosenbusch, N., A. Rauch, and A. Bausch. 2013. "The mediating role of entrepreneurial orientation in the task environment-performance relationship". *Journal of Management*. 39: 633–659.
- Russell, R. D. 1999. "Developing a process model of intrapreneurial systems: A cognitive mapping approach". *Entrepreneurship: Theory and Practice*. 23(3): 65–84.

Sathe, V. 1989. "Fostering entrepreneurship in large diversified firm". Organizational Dynamics. 18(1): 20–32.

- Sawyer, R. K. 2006. "Educating for innovation". Thinking Skills and Creativity. 1(1): 41–48.
- Schildt, H. A., M. V. J. Maula, and T. Keil. 2005. "Explorative and exploitative learning from external corporate ventures". *Entrepreneurship Theory and Practice*. 29(4): 493–515.
- Sharma, P. and J. J. Chrisman. 1999. "Toward a reconciliation of the definitional issues in the field of corporate entrepreneurship". Entrepreneurship Theory and Practice. 23(3): 11–28.
- Shepherd, D. A., J. G. Covin, and D. F. Kuratko. 2009. "Project failure from corporate entrepreneurship: Managing the grief process". Journal of Business Venturing. 24(6): 588–600.
- Shepherd, D. A. and D. F. Kuratko. 2009. "The death of an innovative project: How grief recovery enhances learning". *Business Horizons*. 52(5): 451–458.
- Slevin, D. P. and J. G. Covin. 1997. "Time, growth, complexity, and transitions: Entrepreneurial challenges for the future". *Entrepreneurship Theory and Practice*. 22(2): 53–68.
- Smith, K. G. and D. Di Gregorio. 2002. "Bisociation, discovery and the role of entrepreneurial action". In: *Strategic Entrepreneurship: Creating a New Mindset*. Ed. by M. A. Hitt, R. D. Ireland, S. M. Camp, and D. L. Sexton. Oxford, UK: Blackwell Publishers. 130–150.
- Stopford, J. M. and C. W. F. Baden-Fuller. 1994. "Creating corporate entrepreneurship". *Strategic Management Journal*. 15: 521–536.
- Sykes, H. B. 1986. "The anatomy of a corporate venturing program". Journal of Business Venturing. 1: 275–293.
- Sykes, H. B. and Z. Block. 1989. "Corporate venturing obstacles: Sources and solutions". *Journal of Business Venturing*. 4: 159–167.
- Thornhill, S. and Amit. 2001. "A dynamic perspective of internal fit in corporate venturing". *Journal of Business Venturing*. 16(1): 25–50.
- Tidd, J. and S. Taurins. 1999. "Learn or leverage? Strategic diversification and organizational learning through corporate venture". Creativity and Innovation Management. 8(2): 122–129.

Titus, V. K., Jr., J. M. House, and J. G. Covin. 2017. "The influence of exploration on external corporate venturing activity". *Journal of Management*. In Press.

- Von Hippel, E. 1977. "Successful and failing internal corporate ventures: An empirical analysis". *Industrial Marketing Management*. 6: 163–174.
- Vozikis, G. S., G. D. Bruton, D. Prasad, and A. A. Merikas. 1999. "Linking corporate entrepreneurship to financial theory through additional value creation". *Entrepreneurship Theory and Practice*. 24(2): 33–43.
- Wadhwa, A., C. Phelps, and S. Kotha. 2016. "Corporate venture capital portfolios and firm innovation". *Journal of Business Venturing*. 31(1): 95–112.
- Wales, W., E. Monsen, and A. McKelvie. 2011. "The organizational pervasiveness of entrepreneurial orientation". *Entrepreneurship Theory and Practice*. 35(5): 895–923.
- Weber, C., B. Bauke, and V. Raibulet. 2016. "An empirical test of the relational view in the context of corporate venture capital". *Strategic Entrepreneurship Journal*. 10(3): 274–299.
- Zahra, S. A. 1991. "Predictors and financial outcomes of corporate entrepreneurship: An exploratory study". *Journal of Business Venturing*. 6: 259–286.
- Zahra, S. A. 1993. "Environment, corporate entrepreneurship and financial performance: A taxonomic approach". *Journal of Business Venturing.* 8: 319–340.
- Zahra, S. A. and D. M. Garvis. 2000. "International corporate entrepreneurship and firm performance". *Journal of Business Venturing*. 15(5–6): 469–492.
- Zahra, S. A., D. F. Kuratko, and D. F. Jennings. 1999a. "Entrepreneurship and the acquisition of dynamic organizational capabilities". Entrepreneurship Theory and Practice. 23(3): 5–10.
- Zahra, S. A., A. P. Neilsen, and W. C. Bogner. 1999b. "Corporate entrepreneurship, knowledge, and competence development". *Entrepreneurship Theory and Practice*. 23(3): 169–189.

## **Author Biography**

Dr. Donald F. Kuratko is The Jack M. Gill Distinguished Chair of Entrepreneurship; Professor of Entrepreneurship; Executive & Academic Director, Johnson Center for Entrepreneurship & Innovation, The Kelley School of Business, Indiana University-Bloomington.

Professor Kuratko is considered a prominent scholar and national leader in the field of entrepreneurship. He has published over 190 articles on aspects of entrepreneurship, new venture development, and corporate entrepreneurship. His work has been published in journals such as Strategic Management Journal, Academy of Management Executive, Journal of Business Venturing, Entrepreneurship Theory & Practice, Journal of Operations Management, Journal of Product Innovation Management, Small Business Economics, Journal of Small Business Management, Family Business Review, and the Journal of Business Ethics. Professor Kuratko has authored 30 books, including one of the leading entrepreneurship books in universities today, Entrepreneurship: Theory, Process, Practice, 10th ed. (Cengage/SouthWestern Publishers, 2017), as well as Corporate Entrepreneurship & Innovation, 3rd ed. (South-Western/Thomson Publishers, 2011), Innovation Acceleration (Pearson/Prentice Hall Publishers, 2012), and Entrepreneurial Leadership (Edward Elgar Publishers, 2013). In addition, Dr. Kuratko has been consultant on corporate innovation and entrepreneurial strategies to a number of major corporations. Dr. Kuratko was the Co-Founder

and Executive Director of the Global Consortium of Entrepreneurship Centers (GCEC), an organization comprised of over 300 top university entrepreneurship centers throughout the world. Under Professor Kuratko's leadership and with one of the most prolific entrepreneurship faculties in the world, Indiana University's Entrepreneurship Program has consistently been ranked as the #1 university for entrepreneurship research; the #1 University Entrepreneurship Program in the United States (public universities) by Fortune; and the #1 Graduate Business School (Public Institutions) for Entrepreneurship and the #1 Undergraduate Business School for Entrepreneurship (Public Institutions) by U.S. News & World Report.

Dr. Kuratko has been named a 21st Century Entrepreneurship Research Fellow by the Global Consortium of Entrepreneurship Centers. The U.S. Association for Small Business & Entrepreneurship honored him with the John E. Hughes Entrepreneurial Advocacy Award for his career advocacy in entrepreneurship and the Academy of Management honored Dr. Kuratko with the Entrepreneurship Advocate Award for his career contributions to the development and advancement of the discipline of entrepreneurship. He has been named one of the Top 50 Entrepreneurship Scholars in the world and was the recipient of the Riata Distinguished Entrepreneurship Scholar Award. In 2011 he was the inaugural recipient of the Karl Vesper Entrepreneurship Pioneer Award for his career dedication to developing the field of entrepreneurship and in 2014 he was honored by the Academy of Management with the Entrepreneurship Mentor Award for his exemplary mentorship to the next generation of entrepreneurship scholars.