

### NURTURING CREATIVITY IN THE CLASSROOM

Deciding how best to nurture creativity in our schools has become more complicated as interest in creativity has exploded. There are controversial Common Core strictures in many states; at the same time, the classroom has become increasingly digital, making it easier to access information, communicate ideas, and learn from people across the world. Many countries now include cultivating creativity as a national educational policy recommendation, yet there is still debate over best practices. Many well-intentioned educators may be instituting programs that do not reach the desired outcome, and the notion that schools "kill creativity" has become widespread. This belief is both hyperbolic and problematic: it allows us to recognize a problem but not solve it. In this book, an international group of experts in the field addresses these issues, discussing theories and research that focus on how to nurture creativity in both K–12 and college-level classrooms.

RONALD A. BEGHETTO is Professor of Educational Psychology in the Neag School of Education at the University of Connecticut. Prior to joining the faculty at UConn, Dr. Beghetto served as the College of Education's Associate Dean for Academic Affairs and Associate Professor of Education Studies at the University of Oregon. He is the Editor-in-Chief for the *Journal of Creative Behavior* and serves as an associate editor for the *International Journal of Creativity and Problem Solving*. He also serves on the editorial boards of *Psychology of Aesthetics, Creativity, and the Arts*; the *Journal of Educational Research; Gifted Child Quarterly*; and *Creativity Studies*. Dr. Beghetto is a Fellow of the American Psychological Association and the Society for the Psychology of Aesthetics, Creativity, and the Arts (Division 10, APA). He has also received numerous awards for excellence in research and teaching.

JAMES C. KAUFMAN is Professor of Educational Psychology at the University of Connecticut. An internationally recognized leader in the field of creativity, he is the author or editor of more than 35 books, including *Creativity 101* and *The Cambridge Handbook of Creativity*. Kaufman is a past president of the American Psychological Association's Division 10, devoted to creativity. He coedits the *International Journal of Creativity and Problem Solving* and cofounded two APA journals. He has won the Torrance Award from the National Association for Gifted Children, the Berlyne and Farnsworth Awards from the APA, and Mensa's Award for Excellence in Research.



## CURRENT PERSPECTIVES IN SOCIAL AND BEHAVIORAL SCIENCES

Current Perspectives in Social and Behavioral Sciences provides thought-provoking introductions to key topics, invaluable to both the student and scholar. Edited by world's leading academics, each volume contains specially commissioned essays by international contributors, which present cutting-edge research on the subject and suggest new paths of inquiry for the reader. This series is designed not only to offer a comprehensive overview of the chosen topics but also to display and provoke lively and controversial debate.

#### Also in this series:

Reflections on the Learning Sciences edited by Michael A. Evans, Martin J. Packer, and R. Keith Sawyer

Mindfulness and Performance edited by AMY L. BALTZELL

Creativity and Reason in Cognitive Development, Second Edition edited by JAMES C. KAUFMAN AND JOHN BAER

### Forthcoming titles:

Research and Theory on Workplace Aggression edited by NATHAN A. BOWLING, AND M. SANDY HERSHCOVIS

Genetics, Ethics and Education edited by Susan Bouregy, Elena L. Grigorenko, Stephen R. Latham, and Mei Tan

 $\it Teacher\ Motivation$  edited by Helen watt, paul Richardson, and kari smith

The Cambridge Companion to Culture, Mind, and Brain: Emerging Concepts, Methods, Applications edited by Laurence J. Kirmayer, Marie-Françoise Chesselet, Shinobu Kitayama, Carol M. Worthman, and Constance A. Cummings



# NURTURING CREATIVITY IN THE CLASSROOM

SECOND EDITION

RONALD A. BEGHETTO

University of Connecticut

JAMES C. KAUFMAN

University of Connecticut





## **CAMBRIDGE**UNIVERSITY PRESS

One Liberty Plaza, New York NY 10006, USA

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning, and research at the highest international levels of excellence.

www.cambridge.org Information on this title: www.cambridge.org/9781107103153

© Cambridge University Press 2017

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press.

First edition printed 2010 Reprinted 2011 (thrice), 2012 Second editon first published 2017

Printed in the United States of America by Sheridan Books

A catalogue record for this publication is available from the British Library.

ISBN 978-1-107-10315-3 Hardback ISBN 978-1-107-50130-0 Paperback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-party Internet Web sites referred to in this publication and does not guarantee that any content on such Web sites is, or will remain, accurate or appropriate.



For Ms. Sheryl VanPelt,
Thank you for inspiring and expecting creativity
from all of your students!

— Ronald A. Beghetto

For Zorana Ivcevic Pringle,
Passionate about creativity, schools, and children,
and one of my dearest friends for many years

– James C. Kaufman



### Contents

Pref Ack:	face nowledgments	<i>page</i> ix xi		
PAR	PART I VOICES FROM THE FIELD			
I.	Changing the Subject  Larry Rosenstock and Rob Riordan	3		
2.	Creativity and the Invention Convention  Jake Mendelssohn	6		
3.	Creativity and Shifting Roles of an Educational Leader: A Reflection of What Creativity Used to Mean to Me and What It Means Now Larry Audet	12		
4.	What I Used to Think about Creativity in Schools Tim Patston	17		
PAR	T II VOICES FROM THE RESEARCH			
5.	Developing Creativity Across All Areas of the Curriculum Joseph Renzulli	23		
6.	Accountability, the Common Core, and Creativity  John Baer and Tracey Garrett	45		
7.	Ever-Broadening Conceptions of Creativity in the Classroom Ronald A. Beghetto and James C. Kaufman	n 67		
8.	Creativity in Mathematics Teaching: A Chinese Perspective (An Update) Weihua Niu and Zheng Zhou	86		

vii



viii	Contents	
9.	Roads Not Taken, New Roads to Take: Looking for Creativity in the Classroom Thomas Skiba, Mei Tan, Robert J. Sternberg, and Elena L. Grigorenko	108
10.	The Five Core Attitudes and Seven I's of the Creative Process <i>Jane Piirto</i>	131
II.	Creativity Embedded into K–12 Teacher Preparation and Beyond Fredricka K. Reisman	162
12.	Attitude Change as the Precursor to Creativity Enhancement Jonathan A. Plucker and Gayle T. Dow	190
13.	Nurturing Creativity in the Engineering Classroom David H. Cropley	212
14.	Intrinsic Motivation and Creativity in the Classroom: Have We Come Full Circle? Beth A. Hennessey	227
15.	Learning for Creativity R. Keith Sawyer	265
16.	Creativity and Prosocial Values: Nurturing Cooperation within the Classroom  Vlad Petre Glăveanu, Angela Branco, and Monica Souza Neves-Pereira	287
17.	How Social-Emotional Imagination Facilitates Deep Learning and Creativity in the Classroom Rebecca Gotlieb, Erik Jahner, Mary Helen Immordino-Yang, and Scott Barry Kaufman	308
18.	Four Faces of Creativity at School  Maciej Karwowski and Dorota M. Jankowska	337
19.	Teaching for Creativity Robert J. Sternberg	355
20.	A Coda for Creativity in the Classroom: Take-Home Points and Final Insights  James C. Kaufman and Ronald A. Beghetto	381

Index

385



## Preface Continuing to Nurture Creativity in the Classroom

The first edition of *Nurturing Creativity to the Classroom* was published in 2010. Although less than a decade has passed, much has happened in the worlds of education and creativity. We've seen the Common Core Standards implemented in many states, eliciting emotional reactions both in favor of and against these ideas. The classroom (and world) has become increasingly digital; it is easier than ever to access information, communicate ideas, and learn from people across the world. New voices have emerged and new research and theories have added to the discussion.

We have also seen interest in creativity explode over the past few years. Creativity has become an international educational priority. Many countries have included cultivating creativity in their national educational policy recommendations. This recognition of the importance of creativity has also come with increased concern that many schools are ill-equipped to nurture students' creative potential. In fact, the notion that schools "kill creativity" has become a widespread social meme. We view such beliefs as both hyperbolic and problematic. Although it is true that some educational contexts might suppress students' willingness to take the risks necessary for creativity, schools can't really kill creativity. Indeed, opportunities for supporting creativity are ever-present. Often what is needed is simply recognizing and capitalizing on those opportunities.

The ideas shared in the new addition of this book have the goal of helping educators and researchers nurture creativity in K–12 and college-level classrooms. The chapters in this edition represent a blend of old and new. Some of the chapters are updated from the first edition, some are vastly rewritten, and some are brand-new chapters written expressly for the second edition. We also have four new brief essays to open the book from educators working in the field who have accomplished remarkable feats at incorporating creativity into the classroom. The book concludes with a rewritten coda of both classic and new take-home points.



x Preface

As we wrote in the first preface, we have dual roles of being professors and fathers. As we have watched Olivia, Jacob, and Asher explore and develop their own creativity, the importance of an educational system that values creativity has become increasingly salient. Our children have an advantage in that their fathers value creativity (perhaps too much!). Like so many other parents, we are committed to providing diverse learning opportunities for our children. However, this commitment is not enough.

Sometimes the well-intended parenting and educational practices backfire or get in the way of supporting creativity. In some cases, more guidance and structure is needed to help young people anchor their originality to the given set of task constraints for a particular activity. In other cases, it may be most helpful to get out of the way and allow young people to express their originality in their own unique way. Striking this balance is an ongoing challenge. There are no simple recipes for how best to accomplish it. One key is recognizing that it is a dynamic process. It is a process that often requires blending timely support and encouragement with guidance and awareness of real-world constraints.

It is our hope that this book inspires educators, parents, and researchers to ensure that all students have an opportunity to find, nurture, and sustain their creative potential. We are excited to present an updated and revised edition of this book. We hope that you will enjoy and draw as much insight and inspiration from these essays as we have.



### Acknowledgments

The authors would like to give very special thanks David Repetto of Cambridge University Press for his interest, patience, encouragement, and constant support; Paul J. Barnett for editorial assistance; and our colleagues and friends at the University of Connecticut. Love to Jeralyn and Olivia and to Allison, Jacob, and Asher.