

2013 ANNUAL REPORT

NATIONAL
CENTER FOR
RESPONSIBLE
GAMING

RESEARCH

EDUCATION

TREATMENT

COGNITIVE

OUTREACH

IMPACT

RESOURCES

NEUROSCIENCE

RESPONSIBLE GAMING

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NATIONAL CENTER FOR RESPONSIBLE GAMING

Advancing Research, Education and Awareness

The National Center for Responsible Gaming's (NCRG) mission is to help individuals and families affected by gambling disorders by supporting the finest peer-reviewed, scientific research into pathological and youth gambling; encouraging the application of new research findings to improve prevention, diagnostic, intervention and treatment strategies; and advancing public education about gambling disorders and responsible gaming. The NCRG is the American Gaming Association's (AGA) affiliated charity.

Building CONNECTIONS



The National Center for Responsible Gaming (NCRG) has always been focused on building connections. It is a top priority for us to encourage dialogue between researchers in the field and clinicians; link science and clinical practice; and bring together regulatory bodies, community leaders and public health officials. And 2013 was certainly no exception. Over the past year, the NCRG has aimed to unite and expand the field through successful and long-lasting collaborations that will advance research, education and awareness of gambling disorders and responsible gaming.

A fundamental aspect of the NCRG's mission is to invest in high-quality research that helps us better understand gambling disorders. Last spring, the NCRG named The University of Chicago and Yale University as the next NCRG Centers of Excellence in Gambling Research. These two institutions were each awarded a three-year grant to employ a long-term, institutional approach to conducting innovative research and education programs about gambling disorders. In addition, the NCRG has continued to build on its robust and competitive research grants program by awarding \$751,951 to support new projects.

While research has been, and always will be, the foundation of the NCRG's work, our organization also makes a concerted effort to find new ways to integrate these research findings into new initiatives and resources that will increase awareness and public education. With two new videos that explain the science behind our understanding of gambling disorders and highlight our many accomplishments since 1996, more people are learning about this public health issue and getting help if they need it.

We also want to make it easier to access information on gambling disorders and responsible gaming. One way we've done this is by creating The Discovery Project, a new, easy-to-use online library, located on our website, where you can find fact sheets, brochures, videos and more in one location.

The NCRG's work to connect research and education didn't stop there. The organization continued with many of its successful programs and resources: regional treatment provider workshops; free educational webinars; the eighth volume of its monograph series; a successful annual conference; and the second edition of the Gambling and Health series to aid professionals within the justice system.

Because of the success of these initiatives, the NCRG reached more than a half million people with resources in 2013 alone. Throughout our 2013 Annual Report is a story about our tireless work to enhance connections so that the field can grow and help more people with this addiction than ever before. On behalf of the organization's Board of Directors, Scientific Advisory Board and staff, we want to thank everyone who has helped, and continues to help, expand our connections that, ultimately, move our organization forward.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Alan Feldman'.

Alan Feldman
Chairman of the National Center for Responsible Gaming

Connecting the Field of **RESEARCH TO PRACTICE**

For the past 17 years, the NCRG has seen the value of investing in the work of the top scientists in the field of gambling disorders. Not only did the NCRG provide the first significant private source of funding for high-quality research in 1996, but the organization continues to develop the field by encouraging young investigators to consider applying for the NCRG's grants. Over the years, the NCRG has invested almost \$17 million toward innovative research studies.

What impact does that type of investment make? For every \$50,000 that the NCRG allocates for research, investigators publish at least one academic article in a scientific journal that helps advance our knowledge of gambling disorders and addiction as a whole.

The NCRG is proud of its investment in 2013. The organization awarded more than \$750,000 in research funding for studies in our project grants program and awarding NCRG Centers of Excellence in Gambling Research grants to two institutions.

NCRG-funded studies continue to make an impact—from blocking the neurotransmitter in rats that helps curb problematic gambling behavior, to studying the interaction of gambling disorders and mood disorders for those in treatment. Findings from studies like these helps to connect the science to practice—giving clinicians, researchers, public health officials and more the ability to apply the research results to their daily lives.

Using research findings to increase public awareness—a hallmark of the NCRG's work in 2013.

To ensure the highest quality of research is awarded each year, the NCRG grants program is overseen by the NCRG Scientific Advisory Board (SAB), which makes funding decisions based upon recommendations from independent peer-review panels. To see a list of the NCRG's SAB members, visit page 27. For the NCRG's peer-review panelists in 2013, see page 28.



*NCRG Scientific Advisory Board Chairman
Ken C. Winters, Ph.D., of the University of Minnesota*

\$50k

For every \$50,000 that the NCRG invests in research, one academic article is published.

Ensuring the Integrity of NCRG-FUNDED RESEARCH

Gaming Industry

The NCRG's funders — mostly gaming companies and suppliers — make contributions to the NCRG.

National Center for Responsible Gaming

The NCRG keeps a portion of the funds to use for education and outreach initiatives, while the bulk of the funds are distributed to research projects as directed by the independent Scientific Advisory Board (SAB) and peer-review panels.

SAB and Peer-review Panels

Researchers interested in obtaining funding submit proposals through the NCRG's competitive grant-making process. This process is overseen by the SAB, an independent committee of some of the field's leading experts. A peer-review panel is assembled to evaluate the proposals, based on criteria modeled after those used by the National Institutes of Health. The Scientific Advisory Board makes final funding decisions.

NCRG Centers of Excellence

Using substantial research grants awarded by the NCRG, the NCRG Centers of Excellence in Gambling Research conduct dynamic, ongoing research programs on gambling disorders.

NCRG Project Grants

The NCRG also awards grants to researchers from around the world for individual research projects on gambling disorders.

Peer-reviewed Scientific Journals

After the research has been completed, the researcher usually submits a report on the project and its findings to independent, peer-reviewed journals. NCRG-funded studies have resulted in the publication of more than 220 articles in such journals. The NCRG board and its funders learn about the research findings after they have been published.

NCRG Centers of Excellence in Gambling Research

During more than a decade of funding research on gambling disorders, the NCRG observed that substantial, multiyear research grants are the most effective vehicles for producing seminal research on gambling disorders. The strength of an established research center lies in the fact that they move the field forward in its understanding of the disorder, all while placing a strong emphasis on mentoring the next generation of scientists. In 2009, the NCRG created the NCRG Centers of Excellence in Gambling Research and awarded the first three-year grants to the University of Minnesota and Yale University.

Following the initial success of the program, the NCRG opened up a rigorous peer-review process in 2012 for institutions to apply to become NCRG Centers of Excellence. In March, the NCRG announced that the institutions that would receive the next three-year round of funding were The University of Chicago and Yale University. For the remainder of 2013, both NCRG Centers of Excellence conducted groundbreaking studies, promoted science-based education efforts for health care providers and mentored the next generation of researchers in this field.

NCRG Center of Excellence at The University of Chicago

Under the leadership of Jon E. Grant, J.D., M.D., M.P.H., the goal of the NCRG Center of Excellence in Gambling Research at The University of Chicago is to develop and validate a model that potentially detects and treats youth who are susceptible to impulse control problems and other risky behaviors, including gambling disorders.

Dr. Grant and his colleagues will conduct this research in partnership with the University of Minnesota. Because of the collaboration between these two institutions, this NCRG Center of Excellence will be able to expand their research by:

- Increasing ethnic diversity of the sample to include 200 additional participants in the sample of 420 young adults recruited previously.
- Using neuroimaging and genetics testing technology, specific to The University of Chicago, to investigate the core cognitive dysfunctions of the brain.



Dr. Jon Grant

NCRG Center of Excellence at Yale University

The two main research components of the NCRG Center of Excellence in Gambling Research at Yale University are to:

- Focus on the interaction between the neurobiology and clinically relevant aspects of gambling disorders
- Investigate adolescent gambling and risk-taking in a community survey

Over the next three years, Marc Potenza M.D., Ph.D., and his team will expand these two focus areas to integrate new epidemiological, public health, clinical, treatment, genetic, behavioral and neuroimaging methods to study new lines of research by including:

- Understanding the motivational and emotional factors that influence the development of gambling disorders in men and women.
- Focusing on the role of stress in gambling urges and cravings.
- Conducting a trial of the pharmaceutical drug and nutritional supplement, n-acetyl cysteine (NAC), and PET brain scans (Positron Emission Topography) to potentially develop a medication for gambling disorders.



Dr. Marc Potenza

NCRG Project Grants Program

The NCRG awarded \$751,951 in research that will work to make connections — not only within the field of gambling disorders, but also among various disciplines — by looking at mood disorders and post-traumatic stress disorder (PTSD). Below are the 10 research grants awarded by the NCRG in 2013.

Seed Grants

How Skill Affects Gambler Responses to Wins and Losses

Principal Investigator: Kyle Siler, Ph.D.,
McMaster University

Awarded \$27,536

Using a large dataset of online poker hands, Dr. Siler is studying the effects of wins and losses on subsequent play. He hypothesized that more skilled players will exhibit greater emotional control and strategic consistency than their less skilled counterparts following large wins and losses, whether lucky or unlucky.

An Animal Model of Relapse to Pathological Gambling

Principal Investigator: David Kearns,
Ph.D., American University

Award: \$28,750

What are the causes of relapse among individuals with a gambling disorder? Dr. Kearns is developing an animal model that will both provide information about the reasons why relapse occurs and set the stage for future research that tests behavioral and pharmacological interventions designed to prevent relapse.

The Effects of PTSD on Risky Decision-making

Principal Investigator: Caitlin A. Orsini, Ph.D., University of Florida
Award: \$28,750

Because PTSD may alter decision-making capabilities, there is increasing interest in the relationship between PTSD and disordered gambling behavior. Dr. Orsini's study will use a rodent model to determine whether elevated risk-taking is a pre-disposing factor to developing PTSD-like symptoms following trauma.

Early Stage Investigator Grant

Developing a Mouse Model of Pathological Gambling using an Inducible and Tissue-specific Serotonin 1B Receptor Knock-out

Principal Investigator: Katherine Nautiyal, Ph.D., Research Foundation for Mental Hygiene, Inc.
Award: \$147,706

Dr. Nautiyal's research will serve as a foundation for her future independent career investigating the pathophysiology of gambling disorders and the development of pharmacological treatments for this addiction. Her lab has developed a mouse line that regulates how a specific neurotransmitter receptor regulates the expression of serotonin in the brain, impacting decision-making behavior.



Dr. Tammy Chung leads the 2013 Annual Education Summit's workshop for 30 young researchers.

Large Grants

Efficacy of a Brief Motivational Intervention Delivered via Smartphone and Short Messaging Service

Principal Investigator: Matthew Martens, Ph.D., University of Missouri-Columbia
Award: \$171,350

Expanding upon his previous NCRG grant, Dr. Martens will test the efficacy of a brief intervention designed to reduce gambling behavior among college students, delivered via smartphones and text messages.

Social Influences on the Development of Risky Choice

Principal Investigator: Scott A. Huettel, Ph.D., Duke University
Award: \$172,358

Is adolescent risk-taking indicative of an inability to inhibit behaviors because of immature brain systems? Dr. Huettel will investigate the hypothesis that (a) social context amplifies the value of a positive reward during risky decision-making and (b) that this effect is greater in adolescents.

Neural Correlates of Impulsivity and their Modulation by Dopamine in Problem/Pathological Gambling

Principal Investigator: Andrew Kayser, M.D., Ph.D., Ernest Gallo Clinic and Research Center at the University of California, San Francisco
Award: \$172,500

Dr. Kayser will evaluate a novel approach for gambling disorders: inhibitors of the dopamine-degrading enzyme catechol-O-methyltransferase (COMT). If successful, this study may open the possibility of a new treatment approach to gambling disorders.

Travel Grants

Gambling and the Onset of Comorbid Mental Disorders: A Longitudinal Study Evaluating Severity and Specific Symptoms

Principal Investigator: Iman Parhami, M.D., M.P.H., Delaware Division of Substance Abuse and Mental Health

Award: \$1,500

This grant supported Dr. Parhami's participation in the annual meeting of the American Academy of Addiction Psychiatry where he presented a study of the gambling data in the National Epidemiological Survey on Alcohol and Related Conditions (NESARC). He analyzed the data to determine whether different levels of gambling behavior are associated with the onset of psychiatric disorders and whether certain symptoms are more likely to be associated with the onset of co-occurring disorders.

Do Pathological Gamblers Suffer from a Distorted Sensitivity to Reward?

Principal Investigator: Guillaume Sescousse, Ph.D., Donders Institute for Brain, Cognition and Behavior, the Netherlands

Award: \$1,500

This grant supported Dr. Sescousse's participation as a speaker at the annual meeting of the Society for Neuroscience. He presented on research suggesting a distorted sensitivity to reward for individuals with a gambling disorder. From a clinical perspective, the findings suggest that enhancing the prominence of non-monetary rewards may be a fruitful strategy as part of a therapeutic approach.

The Atypical Antidepressant Mirtazapine Attenuates Gambling-like Behavior in Rodents

Principal Investigator: Amanda Persons, Ph.D., Rush University Medical Center

Award: \$1,500

With this travel grant, Dr. Persons participated in the poster session at the annual meeting of the College on Problems of Drug Dependence. She reported on research, funded by the NCRG, revealing that the atypical antidepressant drug mirtazapine reduced risk-taking behavior in rats.

“There are few psychosocial treatments developed specifically for gambling addiction, and it is difficult to obtain National Institutes of Health or National Science Foundation support to develop new treatment options. NCRG-funding makes this possible.”

Katie Witkiewitz, Ph.D., University of New Mexico

2013 Publications of NCRG-funded Research

For a scientist, research articles published in respected scientific journals is a true hallmark of scientific merit. Since 1996, NCRG-funded research has produced more than 220 publications, and studies made possible by NCRG grants were cited in more than 14,500 articles in academic journals—a true test of impact.

The following is a list of NCRG-funded research studies published in 2013.

- Balogh, K. N., Mayes, L. C., & Potenza, M. N. (2013). Risk-taking and decision-making in youth: Relationships to addiction vulnerability. *Journal of Behavioral Addictions*, 2(1), 1-9.
- Barry, D. T., Pilver, C. E., Hoff, R. A., & Potenza, M. N. (2013). Pain interference, gambling problem severity, and psychiatric disorders among a nationally representative sample of adults. *Journal of Behavioral Addictions*, 2(3), 138-144.
- Derbyshire, K. L., Lust, K. A., Schreiber, L., Odlaug, B. L., Christenson, G. A., Golden, D. J., & Grant, J. E. (2013). Problematic Internet use and associated risks in a college sample. *Comprehensive Psychiatry*, 54(5), 415-422.
- Goodie, A. S., & Fortune, E. E. (2013). Measuring cognitive distortions in pathological gambling: Review and meta-analyses. *Psychology of Addictive Behaviors*, 27(3), 73-743.
- Goodie, A. S., MacKillop, J., Miller, J. D., Fortune, E. E., Maples, J., Lance, C. E., & Campbell, W. K. (2013). Evaluating the South Oaks Gambling Screen With DSM-IV and DSM-5 criteria results from a diverse community sample of gamblers. *Assessment*, 20(5), 523-531.
- Granero, R., Penelo, E., Stinchfield, R., Fernandez-Aranda, F., Savvidou, L.G., et al. (2013). Is pathological gambling moderated by age? *Journal of Gambling Studies*. Retrieved from <http://link.springer.com/article/10.1007/s10899-013-9369-6?no-access=true>.
- Grant, J.E., & Chamberlain, S.R. (2013). Gambling disorder and its relationship with substance use disorders: Implications for nosological revisions and treatment. *The American Journal on Addictions*. Retrieved from <http://onlinelibrary.wiley.com/doi/10.1111/j.1521-0391.2013.12112.x/abstract>.
- Grant J.E., Schreiber, L.R.N., & Odlaug, B.L. (2013). Phenomenology and treatment of behavioral addictions. *Canadian Journal of Psychiatry*, 58(5), 252-259.
- Gray, H. M., Jónsson, G. K., LaPlante, D. A., & Shaffer, H. J. (2013). Expanding the study of internet gambling behavior: Trends within the Icelandic Lottery and sportsbetting platform. *Journal of Gambling Studies*. Retrieved from <http://link.springer.com/article/10.1007%2Fs10899-013-9427-0>.
- Harvanko, A. M., Schreiber, L. R., & Grant, J. E. (2013). Prediction of alcohol and gambling problems in young adults by using a measure of decision making. *Journal of Addiction Medicine*, 7(5).
- Linnet, J. (2013). The Iowa Gambling Task and the three fallacies of dopamine in gambling disorder. *Frontiers in Psychology*, 4. Retrieved from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3792697/>.
- Meisel, M. K., Clifton, A. D., MacKillop, J., Miller, J. D., Campbell, W. K., & Goodie, A. S. (2013). Egocentric social network analysis of pathological gambling. *Addiction*, 108(3), 584-591.
- Odlaug, B.L., Schreiber, L.R.N., & Grant, J.E. (2013). Personality dimensions and disorders in pathological gambling. *Current Opinion in Psychiatry*, 26, 107-112.
- Odlaug, B.L., Stinchfield, R., Golberstein, E., & Grant, J.E. (2013). The relationship of tobacco use with gambling problem severity and gambling treatment outcome. *Psychology of Addictive Behaviors*, 27(3), 696-704.
- Pilver, C. E., Libby, D. J., Hoff, R. A., & Potenza, M. N. (2013). Gender differences in the relationship between gambling problems and the incidence of substance-use disorders in a nationally representative population sample. *Drug and Alcohol Dependence*, 133(1), 204-211.
- Pilver, C. E., Libby, D. J., Hoff, R. A., & Potenza, M. N. (2013). Problem gambling severity and the incidence of Axis I psychopathology among older adults in the general population. *Journal of Psychiatric Research*, 47(4), 534-541.
- Potenza, M. N. (2013). Biological contributions to addictions in adolescents and adults: Prevention, treatment, and policy implications. *Journal of Adolescent Health*, 52(2), S22-S32.
- Potenza, M. N. (2013). How central is dopamine to pathological gambling or gambling disorder? *Frontiers in Behavioral Neuroscience*, 7. Retrieved from <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3870289/>.
- Potenza, M. N. (2013). Neurobiology of gambling behaviors. *Current Opinion in Neurobiology*, 23(4), 660-667.
- Potenza, M. N., Balodis, I. M., Franco, C. A., Bullock, S., Xu, J., Chung, T., & Grant, J. E. (2013). Neurobiological considerations in understanding behavioral treatments for pathological gambling. *Psychology of Addictive Behaviors*, 27(2), 380-392.
- Potenza, M. N., & Brody, A. L. (2013). Commentary on Boileau et al.(2013): Distinguishing D2/D3 dopaminergic contributions to addictions. *Addiction*, 108(5), 964-965.
- Slavin, M., Pilver, C. E., Hoff, R. A., Krishnan-Sarin, S., Steinberg, M. A., Rugle, L., & Potenza, M. N. (2013). Serious physical fighting and gambling-related attitudes and behaviors in adolescents. *Journal of Behavioral Addictions*, 2(3), 167-178.

Expanding the FIELD OF RESEARCH

The NCRG's goal of advancing public education about gambling disorders hinges on connection and collaboration among all who have a vested interest in this issue.

Annual Education Summit

For 2013, the NCRG wanted to bridge the gap between research and practice through education and outreach programs. One initiative that accomplished that on various levels was the seventh Annual Education Summit. One initiative this accomplished that goal was the seventh Annual Education Summit, held on March 14 and 15. NCRG board members Alan Feldman and Judy Patterson and NCRG staff members Amy Kugler, Christine Reilly and Nathan Smith were joined by Dr. Grant, NCRG Scientific Advisory Board (SAB) member Tammy Chung, Ph.D., and SAB Chairman Dr. Winters.



NCRG Chairman Alan Feldman (right) and SAB Chairman Dr. Ken Winters (middle) award Dr. Jon Grant and The University of Chicago as an NCRG Center of Excellence in Gambling Research

On March 14, the NCRG held a symposium in conjunction with The University of Chicago to announce the NCRG Centers of Excellence in Gambling Research grants at The University of Chicago and Yale University. More than 60 community representatives attended this event.

The NCRG also gathered 30 early stage investigators for a full-day workshop on March 15. Drs. Chung, Grant and Winters led sessions designed to sharpen their skills in writing

grants and publishing research, as well as to learn more about available NCRG funding opportunities. As a result, almost 90 percent of the attendees have remained involved in the NCRG in various capacities after this event.

Changes in the *DSM-5* Drive an Education Campaign

The American Psychiatric Association's (APA) highly-anticipated release of the fifth edition of the *Diagnostic and Statistical Manual of Mental Disorders (DSM-5)* signaled a significant change for the field of research on gambling disorders. Thanks in part to the work that the NCRG has funded since 1996, the diagnosis of a gambling disorder moved into the "Addiction and Related Disorders" category, a change that will garner more attention to this addictive behavior.

The NCRG made it a priority to educate researchers and clinicians about the subsequent changes, and conducted a campaign in conjunction with the publication's release in May. The NCRG informed more than 2,000 stakeholders about the significant changes for gambling disorders in the new diagnostic code through the following activities:

- Launched a white paper series for 2013, with the first publication being a discussion on the changes to the gambling disorders diagnostic criteria
- Hosted a webinar on April 24, led by Dr. Grant
- Exhibited at the APA annual meeting to more than 1,200 psychiatrists (an audience that has been previously underserved by the NCRG) to educate about the NCRG's resources and build partnerships with those in addiction medicine
- Conducted a social media education campaign: Kugler, Smith and Reilly used *Gambling Disorders 360°*, the NCRG's blog, and social media channels to cover the activities during the APA convention and subsequent presentations by Drs. Grant and Potenza
- Held a *DSM-5*-specific workshop at the 14th annual NCRG Conference on Gambling and Addiction to help clinicians adjust to the revisions.



The NCRG gave away goodies and information about research and resources at all of its 2013 outreach events

Nathan Smith (left) and Christine Reilly prepare the exhibit for the APA annual meeting

CREATING COLLABORATIONS that Address Important Issues

A hallmark of the NCRG is taking the new, innovative research and helping everyone understand how it impacts their daily lives. In 2013, the NCRG took a new approach to building partnerships and communicating with stakeholders. Through new meetings, publications and online resources, the organization reached more than 500,000 individuals around the world.

Engaging Education Initiatives

NCRG Conference on Gambling and Addiction

Leading up to the 14th annual NCRG Conference on Gambling and Addiction, the many changes in health care policies and mental health diagnostic codes were driving the larger conversation of what recovery and prevention should include for those with addictive disorders. The 2013 NCRG Conference program helped to educate stakeholders about how these changes in the mental health space impact communities. The NCRG Conference—hosted in partnership with the NCRG Centers of Excellence in Gambling Research and occurring in conjunction with Global Gaming Expo (G2E)—was held at the Sands Expo and Convention Center at the Venetian Las Vegas from Sept. 22-24.



*Above: NCRG Conference scholarship recipients enter the first plenary session of the day
Below: The latest NCRG video debuted at the 14th Annual NCRG Conference*

The NCRG is grateful for the generous sponsors of the 14th annual NCRG Conference on Gambling and Addiction.

Platinum:



Silver: betsson group



Bronze: GLI

National leaders in public health, the gaming industry and academia examined how the Affordable Care Act and *DSM-5* will impact diagnosis and treatment options, and discussed the efficacy of responsible gaming programs. Top-tier researchers shared the latest data and gave attendees a fresh perspective on the neurobiology of addiction, specifically about gambling and co-occurring disorders.

The “NCRG at G2E” program, geared toward gaming industry leaders, featured sessions about online responsible gaming interventions, as well as lessons from other industries’ cause-marketing efforts and how each can inform best practices for responsible gaming programs.

The NCRG Conference’s social media presence grew significantly in 2013. With a cadre of conference attendees sharing highlights via Twitter with the event hashtag, social media impressions reached more than 150,000 individuals. The NCRG’s eight posts on Gambling Disorders 360° and real-time reporting on Facebook and Twitter allowed social media users to engage with the conference, even if they weren’t attending in person. Through efforts like these, engagement on social media channels increased 25 percent from 2012 event levels.



NCRG Conference Advisory Board

The following individuals generously donated their time and expertise to help develop the program for the 2013 NCRG Conference:

Bethany Bray

*Research Associate, The Methodology Center
Penn State University*

Peter Cohen

*Director, Regulatory Affairs
The Agenda Group*

Jon E. Grant, J.D., M.D., M.P.H.

*Professor, Department of Psychiatry and Behavioral
Neuroscience
The University of Chicago*

Dean Hestermann

*Corporate Director, Public Affairs
Caesars Entertainment Corporation*

Connie Jones

*Director of Responsible Gaming
International Game Technology*

Renee Kirnberger

*Public Affairs Manager
Potawatomi Bingo Casino*

Amy Kugler

*Director of Communications and Outreach
National Center for Responsible Gaming*

Linda Marx, L.M.F.T.

Marriage and Family Therapist

Reece Middleton

*Executive Director
Louisiana Association on Compulsive Gambling*

Marc N. Potenza, M.D., Ph.D.

*Professor of Psychiatry, Child Study and Neurobiology
Founding Director, Problem Gambling Clinic
Yale University School of Medicine*

Christine Reilly

*Senior Research Director
National Center for Responsible Gaming*

Katherine Spilde, Ph.D.

*Chair, Sycuan Institute on Tribal Gaming
Associate Professor, School of Hospitality
and Tourism Management
San Diego State University*

Mark Vander Linden, M.S.W.

*Director of Research and Problem Gambling
Massachusetts Gaming Commission*

NCRG Scientific Achievement and Poster Awards

Scientific Achievement Award

Understanding how to address youth gambling is no easy task. With more than 150 articles published in peer-reviewed journals, Dr. Jeffery Derevensky, a professor in the school/applied child psychology department and in the psychiatry department of McGill University (Montreal), has provided a greater understanding of how to study youth gambling in clinical settings, college gambling and the development of prevention strategies to help limit youth engagement in gambling and other risky behaviors.

The NCRG presented the 2013 Scientific Achievement Award to Dr. Derevensky, not only for his research efforts, but also for his ability to translate his research to promote public awareness and youth gambling prevention initiatives. His leadership of the McGill International Centre for Youth Gambling Problems and High-risk Behaviors has been instrumental in developing prevention and treatment strategies that address youth gambling at a community level, as well as international collaborations that have advanced the field.

Outstanding Poster Award

The 2013 Outstanding Poster Award was selected from among 30 posters presented at the NCRG Conference. The NCRG presented the award to Alyssa Wilson, Ph.D., and her colleagues from Saint Louis University and Southern Illinois University for their work, titled “Exploring neurological differences among gambling subtypes.”

2013 NCRG Scientific Achievement Award Selection Committee

Robert Ladouceur, Ph.D.
Professor Emeritus of Psychology
Laval University

Sarah Nelson, Ph.D.
Associate Director for Research
Division on Addiction, Cambridge Health Alliance, a teaching affiliate of Harvard Medical School

Katherine Spilde, Ph.D.
Chair, Sycuan Institute on Tribal Gaming
Associate Professor, School of Hospitality and Tourism Management
San Diego State University



Above: NCRG Chairman Alan Feldman awards the NCRG Scientific Achievement Award to Dr. Derevensky



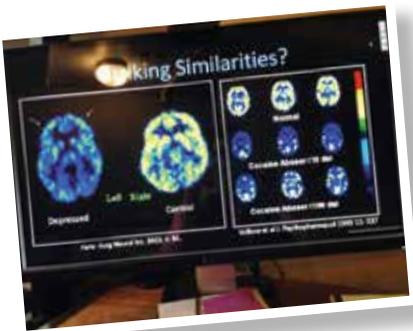
Below: NCRG Conference Scholarship recipient Emily Blomme purchased a book by plenary speaker Anne Fletcher

Reaching Clinicians Across the Nation

NCRG Webinar Series

In partnership with the G2E Online Education Center, the NCRG provided four free training sessions for clinicians, researchers and the public to better understand and address issues related to gambling disorders and responsible gaming. In 2013, attendance for the NCRG Webinar Series showed an unprecedented increase of 47 percent over 2012 attendance numbers.

- **“Post-traumatic Stress Disorder and Problem Gambling”** was held on Feb. 8. Lisa Najavits, Ph.D., of the Boston University School of Medicine, led the session for 258 attendees.
- **“From ‘Pathological Gambling’ to ‘Gambling Disorder:’ Changes in the DSM-5”** – Dr. Grant, co-author of the *DSM-5* guidebook, gave a preview of the changes expected to this diagnostic manual for more than 320 participants on April 24.
- **“Acceptance and Commitment Therapy (ACT) for Gambling Disorders and Other Addictive Behaviors”** – Mark Dixon, Ph.D., professor at Southern Illinois University, presented this evidence-based therapeutic option to more than 200 attendees on July 31.
- **“Addiction as Syndrome: Implications for Understanding and Treating Gambling Disorders and Other Addictions”** – Sarah Nelson, Ph.D., associate director of research at the Division on Addiction, Cambridge Health Alliance, a teaching affiliate of Harvard Medical School, led this session for 205 participants on Oct. 30.



Dr. Sarah Nelson answers questions during her treatment provider workshop

47% In 2013, attendance for the NCRG Webinar Series increased.

Treatment Provider Workshop Series—Partnerships that Produce Quality Training

More than 300 clinicians took part in three regional sessions, held in partnership with local organizations, to help mental health and addiction treatment providers understand the most up-to-date research on gambling disorders and apply those findings to their clinical practice. At each workshop, attendees received the full NCRG toolkit with brochures, diagnostic tools and other resources. These sessions and regional partners included:



Treatment Provider Workshop in Baton Rouge, La., sponsored by Penn National Gaming

- Pasco, Wash.:** Dr. Nelson led this two-part training, held in partnership with the Evergreen Council on Problem Gambling, on April 2. More than 80 percent of the attendees represented Native American tribal health facilities.
- Kansas City, Mo.:** Dr. Najavits led the second session at the Midwest Conference on Problem Gambling and Substance Abuse on June 26. Her talk, titled “Post-traumatic Stress Disorder and Problem Gambling,” was the highest-rated session of the conference among attendees.
- Baton Rouge, La.:** In partnership with the Louisiana Association on Compulsive Gambling, the NCRG organized the final 2013 workshop on gambling disorder screening and assessment strategies. More than 50 clinicians heard Dr. Winters give an overview of how to diagnose and treat co-occurring disorders.

Each treatment provider workshop was supplemented by meetings with gaming industry members to explain more about the NCRG’s resources; college university administrators to talk about the tools on CollegeGambling.org; and more. Each trip yielded an average of four meetings.

Brief Biosocial Gambling Screen (BBGS) A “yes” answer to any of the questions means the person is at risk for developing a gambling problem.

1. During the past 12 months, have you become restless, irritable or anxious when trying to stop/cut down on gambling?	YES NO <input type="checkbox"/> <input type="checkbox"/>
2. During the past 12 months, have you tried to keep your family or friends from knowing how much you gambled?	YES NO <input type="checkbox"/> <input type="checkbox"/>
3. During the past 12 months did you have such financial trouble as a result of your gambling that you had to get help with living expenses from family, friends or welfare?	YES NO <input type="checkbox"/> <input type="checkbox"/>

www.ncrg.org
www.divisiononaddiction.org

The Brief Biosocial Gambling Screen, developed by Harvard Medical School researchers, was given to all of the participants of the NCRG’s 2013 outreach and education events

500,000+

Individuals reached around the world through NCRG meetings, publications and online resources

Connection Point: Outreach and Partnerships

NCRG staff members logged more than 50,000 miles in 2013 by traveling across the country to deliver keynote addresses, present and exhibit at events and conference, or build new partnerships. Over the past year, staff and members from the Board of Directors and SAB attended 13 meetings or events on behalf of the NCRG—aiming to increase visibility from previous years. Each event targeted a different stakeholder group, from university health professionals and clinicians to gaming regulators.

NCRG staff promoted the organization’s research program at national and international events, including the International Conference on Gambling and Risk Taking, the American Psychiatric Association’s annual meeting, the Research Society on Alcoholism, and the Association for Cognitive and Behavioral Therapies. Kugler and Reilly led presentations at public health conferences, such as the American College Health Association, the National Council on Problem Gambling’s annual meeting, the Midwest Conference on Problem Gambling and Substance Abuse, and the Iowa State Prevention Conference. Additionally, NCRG staff, researchers and board members have consulted with, and provided the latest research to, state gaming regulators to help them determine the future of responsible gaming programs in their area.

Helping More Students “Know the Odds”

On September 27, the packets of the “Know the Odds” curriculum, developed in partnership with Young Minds Inspired (YMI), reached 1,445 schools in Atlantic City, N.J., Biloxi, Miss., Chicago, Cleveland, Las Vegas, New Orleans, Philadelphia, San Diego, and Seattle. YMI estimates that this mailing reached more than 400,000 students, parents and teachers. To promote the research in target markets, the NCRG distributed a press release and pitched stories to key reporters. Since the program began in 2011, this program has reached more than 3,700 schools—reaching almost 940,000 students, parents and teachers.

Responsible Gaming Education Week

In conjunction with the AGA, the NCRG helped coordinate the 16th annual Responsible Gaming Education Week (RGEW), which took place from Aug. 5 to 9. The theme for 2013—“How Do You Say Responsible Gaming?”—focused on educating gaming employees and patrons nationwide about the tenets of responsible gaming and provided materials in six languages. The NCRG opened up RGEW to regional and state problem gambling councils, five of whom participated.

As a part of RGEW, the NCRG and AGA asked employees to videotape responsible gaming messages in their first languages. The organizations compiled a video showing the breadth of languages of gaming employees, which is featured on the AGA’s YouTube page.



Connection Point: Resources

Describing the Science with Videos

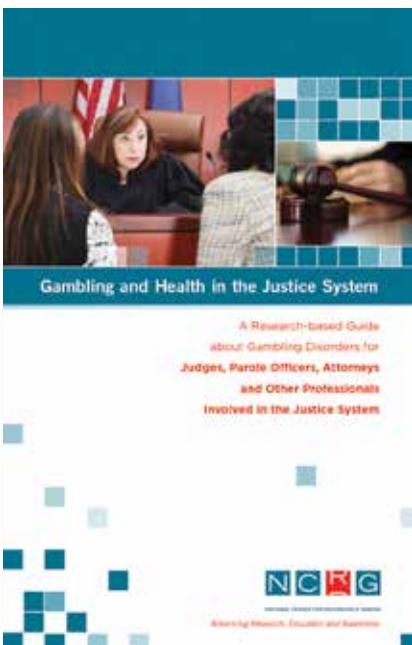
A goal of the NCRG for 2013 was to present the science-based findings of the latest research to new audiences. To accomplish this, the NCRG created brief videos that brought the studies to life in a way that was easy to understand.

- The first video— **“What is a Gambling Disorder?”**— gives an overview of the research findings about gambling disorders and resources for help. The NCRG promoted this video among media outlets, partners and various trade publications, including the AGA SmartBrief daily email. The video currently has more than 1,500 views on the NCRG’s YouTube channel, has been distributed to more than 15 gaming properties to use for employee trainings and has been shown in five orientations for incoming college students.
- **“The Impact of the NCRG”** is a two-minute glimpse of the significant advancements made by the NCRG since 1996. It includes the many NCRG-funded research highlights and educational resources that the organization provides. The video was debuted at the 14th annual NCRG Conference and has been viewed by more than 500 individuals on the NCRG’s YouTube channel, at training events and speaking engagements.



“Gambling and Health in the Justice System”

The second edition of the *Gambling and Health* series was published in July and distributed to more than 1,000 members of national organizations representing the judiciary and drug court systems, as well as public health organizations. This guidebook and one-page fact sheet was designed to give judges, parole officers, attorneys and other professionals involved in the legal system a greater understanding of gambling disorders and responsible gaming. The publication was launched in conjunction with a unique meeting convened by the Evergreen Council on Problem Gambling at the National Council on Problem Gambling (NCPG) annual conference attended by attorneys and judges from the Pacific Northwest. An additional 500 guidebooks were supplied to a statewide training for attorneys and judges hosted by partners in Nevada.



The Discovery Project

In July, the NCRG launched The Discovery Project, an easy-to-use online library specifically designed for media and other stakeholders. The Discovery Project includes new materials, synthesizes the NCRG's numerous resources—including videos, guidebooks, brochures and condensed information on research studies—and allows users to search for information by date, keyword, topic or content type. E-ad marketing promoted the resource to more than 8,000 people, including the NCRG's database, key stakeholders, partners and an expanded media list. The Discovery Project has been accessed more than 5,000 times since July.



Integrating Resources in New Languages

To help expand the international reach of the NCRG's resources, the organization translated the following materials in these languages:

- “Talking with Children about Gambling” brochure: Chinese, French, Korean, Spanish and Vietnamese
- “NCRG Resources” brochure: Chinese, French, Spanish and Vietnamese
- “College Gambling” brochure: French and Spanish
- Brief Biosocial Gambling Screen magnet: Chinese, French, Korean, Spanish and Vietnamese



All of these publications are available as a free download on the NCRG's website.

Increasing the Odds: A Guide to Understanding Gambling Disorders and Responsible Gaming

The eighth edition of the NCRG's monograph series was released in August. Titled “Innovative Studies from the NCRG Centers of Excellence in Gambling Research,” the publication highlights the NCRG Centers of Excellence at the University of Minnesota and Yale University's work during their first three years of funding. More than 1,000 copies were distributed, and the monograph has been downloaded more than 800 times.

NCRG White Paper Series

In March, the NCRG developed two white papers that explain the changes in the *DSM-5* (as previously mentioned) and the latest research on Internet gambling. They are both available on the NCRG's website as a free download, and both have been downloaded nearly 1,000 times each.

Responsible Gaming Quarterly

This joint publication of the NCRG and the AGA was published in late January as an online version on both the NCRG and AGA websites. It was distributed via email marketing to the *Responsible Gaming Quarterly (RGQ)* database of more than 7,000 readers.

New Online Distribution Platforms

To increase use and distribution of the organization's various resources, the NCRG used ISSUU (www.issuu.com), a clearinghouse that allows users to access and download material. Currently, the Gambling and Health series, *RGQ*, select monographs and brochures are uploaded. The seven publications currently available on ISSUU boast more than 15,000 unique visits.

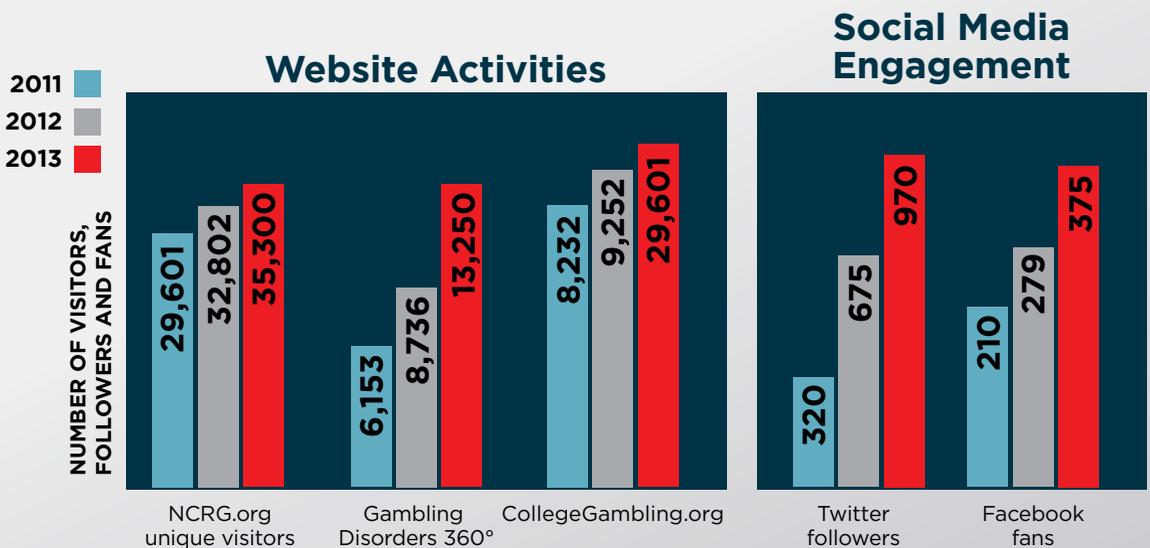
Media Outreach

A majority of the organization's media coverage centered on specific NCRG programs, including the NCRG Centers of Excellence in Gambling Research award announcement and new resources. NCRG-funded researchers were featured in articles run by the *Chicago Tribune* and *The Wall Street Journal*, and the *Las Vegas Review-Journal* covered changes to the NCRG Board of Directors. Additional coverage included a drive time interview on August 7 with KXNT Radio Las Vegas.

The NCRG was heavily involved in helping connect reporters for the Associated Press and *The Washington Post* to the relevant researchers to help disseminate peer-reviewed research in those publications.

Websites and Social Media Channels

The NCRG's website traffic has increased 10 percent (compared with 2012), to 35,300 visits and 87,350 page views in 2013. Likewise, Gambling Disorders 360° saw its viewership increase almost 60 percent this year to almost 13,250 visits and 18,350 page views. The NCRG's Twitter account has grown to 970 followers, and the Facebook page has grown to 375 fans.



A Look to the **FUTURE**

With a successful 2013 and many opportunities on the horizon, the NCRG is conducting a set of strategic planning sessions in the beginning of 2014. This will help the organization refine its mission and set a vision for its future, while holding true to the impact that the NCRG has already made.

In the meantime, the NCRG will continue to be at the forefront of supporting innovative research studies. This year, the NCRG is pleased to make \$800,000 available in grants to support scientific research on gambling disorders. Grants will be awarded on a competitive basis in four different categories: Travel Grants, Seed Grants, Post-doctoral Individual Fellowships and Large Grants. We are also excited to see the research findings from the work of the NCRG Centers of Excellence in Gambling Research at The University of Chicago and Yale University and learn how they'll improve diagnostic, intervention and treatment strategies.

The NCRG will aim to further educate college administrators and college health professionals about gambling on college campuses in 2014. This latest college gambling campaign will kick off during the NCAA basketball tournament and will include two new key resources.

First, NCRG-funded researchers will publish the first-ever online screening and brief intervention designed specifically for college students. This web-based assessment will be available on CollegeGambling.org, serving as a helpful resource for college-aged individuals to assess their gambling behavior.

The NCRG will also release a video, geared toward college students, to help them better understand gambling, the risks and how to gamble responsibly (if they are of legal age).

Partnerships will remain an integral part of the NCRG moving forward. The organization will continue to build on partnerships with local, national and international organizations, helping to combine our efforts to collectively educate and increase awareness of gambling disorders around the world. The NCRG will share all of our events, trainings, resources and outreach efforts through a new online news resource and social media channels.

In 2014, the NCRG is planning a celebration for the 15th annual NCRG Conference on Gambling and Addiction. The upcoming event will unite attendees in unique ways and utilize more technology and educational tools than previous years.

With the past as prologue, the NCRG is poised to fund more research and reach the public with more resources than before. We hope you'll join us in our effort to advance the understanding of gambling disorders and responsible gaming.

Financial STATEMENTS

The following Summary of Financial Position and Statement of Activities reflect amounts from the NCRG's 2012 audit. Financial statements that reflect audited figures from 2013 will be available by fall 2014.

Summary of Financial Position

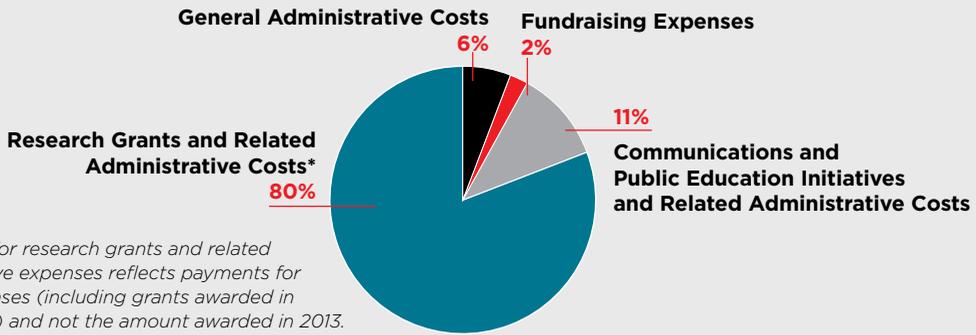
As of December 31	2012	2011
ASSETS		
Cash and Cash Equivalents	\$3,198,741	\$3,080,845
Investments	570,361	512,462
Accounts Receivable	111,523	13,256
Prepaid Expenses and Deposits	10,477	11,505
Grants Receivable	2,612,191	2,985,321
Total Assets	\$6,503,293	\$6,603,389
\$7,528,169		
LIABILITIES AND NET ASSETS		
Liabilities		
Accounts payable and accrued expenses	\$30,317	\$75,233
Grants Payable	\$1,135,390	\$759,522
Total Liabilities	\$1,165,707	\$834,785
Net Assets		
Unrestricted	2,725,395	1,778,115
Temporarily Restricted	2,612,191	3,990,489
Total Net Assets	5,337,586	5,768,604
Total Liabilities and Net Assets	\$6,503, 293	\$6,603,389

Statement of Activities

Year Ended December 31	2012	2011
UNRESTRICTED ACTIVITIES		
REVENUE AND SUPPORT		
Hall of Fame	\$235,947	\$223,233
NCRG Conference	197,600	201,633
AGEM-AGA Golf Tournament	133,000	100,000
Contributions	48,540	18,490
Interest and Dividends	13,095	20,635
Other Income	1,175	13,346
	<u>\$629,357</u>	<u>\$577,367</u>
Net Assets Released from Restriction	2,281,168	481,766
Total Unrestricted Revenue and Support	\$2,910,525	1,059,133
EXPENSE		
Program Services		
Institute and Research	\$1,161,443	723,133
Communications	337,318	370,700
Education and Outreach	165,938	130,594
Conference	132,797	190,612
Total Program Services	<u>\$1,797,496</u>	<u>1,415,039</u>
Supporting Services		
Administrative	141,466	144,075
Fundraising	71,896	86,870
Total Supporting Services	<u>\$213,362</u>	<u>\$230,945</u>
Total Expense	\$2,010,858	\$1,645,984
Change in Net Assets Before Other Item	899,667	(586,851)
Realized and Unrealized Gain (Loss), Net	47,613	(40,548)
Change in Unrestricted Net Assets	<u>(\$947,280)</u>	<u>(\$627,399)</u>
TEMPORARILY RESTRICTED ACTIVITIES		
Contributions	850,000	
Change in Discount, Net	52,870	118,276
Change in Pledged Amount	-	(4,000)
Net Assets Released from Restriction	<u>(2,281,168)</u>	<u>(481,766)</u>
Change in Temporarily Restricted Net Assets	<u>(1,378,298)</u>	<u>(367,490)</u>
CHANGE IN NET ASSETS	(431,018)	(994,889)
Net Assets, Beginning of Year	\$5,768,604	\$6,763,493
Net Assets, End of Year	<u>\$5,337,586</u>	<u>\$5,768,604</u>

Summary of 2013 Expenditures

Based on unaudited financials as of December 31, 2013



*The figure for research grants and related administrative expenses reflects payments for actual expenses (including grants awarded in earlier years) and not the amount awarded in 2013.

NCRG Contributors

Since 1996, more than \$25 million has been committed to the NCRG, thanks to generous support from various financial donors. Gaming companies, suppliers, related organizations and individuals make multi-year pledges as a show of their ongoing commitment to funding the best research available on gambling disorders and responsible gaming. The following is a list of contributors in 2013.

Gold Level

Caesars Entertainment Corporation

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President, CEO and Chairman

Las Vegas Sands Corp.

Sheldon G. Adelson
Chairman of the Board and CEO

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International Game Technology

Patti S. Hart
CEO

MGM Resorts International

James J. Murren
Chairman and CEO

Bronze Level

Acadia Healthcare

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Richard Haddrill
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Keith Smith
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President and CEO

Station Casinos, LLC

Frank J. Fertitta, III
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WMS Gaming, Inc.

Brian R. Gamache
Chairman and CEO

Wynn Resorts, Limited

Stephen A. Wynn
Chairman of the Board and CEO

Fundraising EVENTS

In addition to the substantial financial donations from the NCRG's donors, several major fundraisers in 2013 netted significant contributions for the organization.

AGEM-AGA Golf Classic

The 15th annual AGEM-AGA Golf Classic, co-sponsored by the Association of Gaming Equipment Manufacturers (AGEM) and the American Gaming Association (AGA), was held on April 30 at Cascata in Boulder City, Nev. This event raised \$129,000 for the NCRG, thanks to the following sponsors.

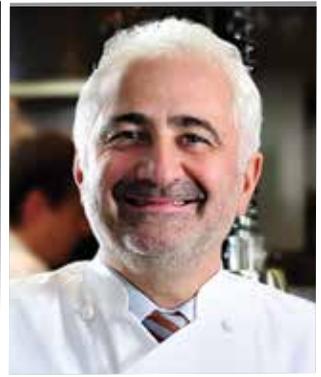
The following companies generously supported the event:

- AGEM
- AGA
- Ainsworth
- Aristocrat Technologies, Inc.
- Bally Technologies, Inc.
- Caesars Entertainment Corporation
- CEM Magazine
- Global Gaming Expo (G2E)
- Gaming Laboratories International
- GPI
- Hikam
- International Game Technology (IGT)
- KickTeam, Inc.,
- Waffletechnology
- Konami
- Las Vegas Sands Corp.
- MEI
- Nanoptix
- Patriot Gaming
- Samsung
- Southwest Print Source
- Suzo-Happ
- Steinbeck Communications



The presentation of the proceeds from the 2013 Golf Classic to the NCRG- (l-r) Geoff Freeman, president and CEO of the AGA; Judy Patterson, senior vice president and executive director of the AGA; Alan Feldman, NCRG chairman and executive vice president of global government and industry affairs of MGM Resorts International; Aki Isoi, president of JCM Global; and Tom Jingoli, president of Konami





2013 Gaming Hall of Fame Inductees (l-r) Celine Dion, Frank Fahrenkopf, Jr., Gary Loveman, Guy Savoy

25th Annual Gaming Hall of Fame Charity Gala and Induction Ceremony

Industry leaders from across the globe gathered on November 14 to honor four individuals and their incredible contributions to the gaming industry at the 25th annual AGA Gaming Hall of Fame event at PURE Nightclub at Caesars Palace in Las Vegas. This event raised more than \$184,000 for the NCRG.

Inductees included: Gary Loveman, CEO of Caesars Entertainment Corporation; Frank J. Fahrenkopf, Jr., former president and CEO of the AGA; Celine Dion, international pop sensation; and Guy Savoy, Michelin star award-winning restaurateur.

The following sponsors made the 25th annual Gaming Hall of Fame event possible:

Major Underwriter

Southern Wine and Spirits of Nevada

Host Sponsor

Caesars Entertainment Corporation

Platinum Sponsors

AEG Live
Boyd Gaming Corporation
First Republic Bank
Las Vegas Sands Corp.
MGM Resorts International
Pinnacle Entertainment, Inc.
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Association of Gaming Equipment
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Brownstein Farber Hyatt Schreck
Churchill Downs, Inc.
Elmendorf Ryan
EY
Holland & Hart
Isle of Capri Casinos, Inc.
JCM Global
PricewaterhouseCoopers, LLP

Additional Programs

Global Gaming Expo (G2E) donated \$93,850 to the NCRG through its annual giving campaign. Those funds represented a portion of G2E registration fees and donations from exhibitors.

NCRG Leadership

Board of Directors

The NCRG is governed by a board of directors that serves as the practical, hands-on management group for the organization. Comprised of public health officials, industry executives, regulators and community leaders, the NCRG board focuses mainly on education and outreach program creation and implementation.

OFFICERS

CHAIRMAN

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Executive Vice President of Global
Government and Industry Affairs
MGM Resorts International

PRESIDENT

Phil Satre

Chairman
International Game Technology

PRESIDENT-EMERITUS

William S. Boyd

Executive Chairman
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Judy Patterson*

Senior Vice President and Executive
Director
American Gaming Association

Christine Reilly**

Senior Research Director
National Center for Responsible Gaming

*Served until October 2013

**Appointed in October 2013

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Kathleen M. Scanlan

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Mark Vander Linden

Director of Research and Problem Gambling
Massachusetts Gaming Commission

Andrew Zarnett

Managing Director
Deutsche Bank

Scientific Advisory Board

The NCRG Scientific Advisory Board is composed of leading scientists in addiction and related interests, and their role is to ensure that the NCRG maintains the highest integrity in administering the research program by following rigorous standards in awarding grant funding. The board's main responsibilities are to monitor the progress of the NCRG Centers of Excellence, evaluate the project grants program and advise on education initiatives.

In 2013, the NCRG appointed Dr. Ken Winters as the chairman of the Scientific Advisory Board. Dr. Winters replaced Dr. Linda Cottler, who remains a member of the board.

CHAIRMAN

Ken C. Winters, Ph.D.

*Professor of Psychiatry
Director, Center for Adolescent Substance
Abuse Research
University of Minnesota*

BOARD MEMBERS

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Principal, Optimal Development Coaching*

Wendy S. Slutske, Ph.D.

*Professor, Department of Psychological Sciences
University of Missouri - Columbia*

Peer Review Panel Members

To ensure the highest possible standards in the grants program, the NCRG recruits distinguished researchers in the addictions field to evaluate grant proposals. The following individuals served on peer-review panels in 2013.

Donald W. Black, M.D.

*Professor of Psychiatry
University of Iowa*

Brian Borsari, Ph.D.

*Associate Professor, Department of
Psychiatry and Human Behavior
Brown University*

Joe Cubells, M.D., Ph.D.

*Associate Professor of Human
Genetics, Psychiatry and
Behavioral Sciences
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Adam Goodie, Ph.D.

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Director, Georgia Decision Lab
University of Georgia*

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Andrea King, Ph.D.

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Director, Clinical Addictions
Research Laboratory
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Affairs, Division on Addiction,
Cambridge Health Alliance
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Harvard Medical School*

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Medical University of South Carolina*

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*Instructor
Columbia University*

T. Celeste Napier, Ph.D.

*Professor of Pharmacology
Rush Medical Center*

Sarah Nelson, Ph.D.

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Division on Addiction, Cambridge
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Harvard Medical School*

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California Institute of Technology*

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and Neurobiology
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*Assistant Professor of Psychology
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Traumatic Brain Injury Studies
University of Florida*

Catharine Winstanley, Ph.D.

*Michael Smith Early Career Scholar
University of British Columbia*

Harold Wynne, Ph.D.

*President
Wynne Resources, Ltd.*

Ziming Xuan, Ph.D.

*Professor of Community Health
Sciences
Boston University*

Jared Young, Ph.D.

*Postdoctoral Fellow
University of California-San Diego*

David Zald, Ph.D.

*Professor of Psychology and
Psychiatry
Vanderbilt University*



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