

## **J. Scott Tonigan, Ph.D.**

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### **Education**

- Ph.D.** 1989, Psychological Foundations, College of Education, University of New Mexico. Major: Applied research design and statistics. Emphasis on psychometric assessment and multivariate statistical approaches. Minor: Human resource management, concentration in competency-based performance evaluation. Dissertation, Teacher impressions of competency-based performance feedback: A multivariate approach.
- M.A.**, with distinction, 1982. Educational Psychology, College of Education, University of New Mexico. Major: Expectancy theory. Minor: Applied educational research design and statistics.
- B.A.**, with distinction, 1977. College of Arts and Sciences, History major, Economics minor. University of New Mexico.

### **Professional Experiences**

- 2008 Research Professor of Psychology, University of New Mexico
- 2007 Consulting Editor, Psychology of Addictive Behavior.
- 2007 Editorial Board, *Journal of Substance Abuse Treatment*
- 2003 Editorial Board, *Alcoholism Treatment Quarterly.*
- 2002-04 Co-Director, Center on Alcoholism, Substance Abuse, and Addictions, CASAA Director, Clinical Research Branch, University of New Mexico, Albuquerque, NM
- 2002-04 Associate Research Scientist, Research Institute on Addictions (RIA), University of Buffalo, Buffalo, NY.
- 2002-03 Adjunct Faculty, Kent School of Social Work, University of Louisville.
- 2001-04 Consulting editor, *Journal of Consulting and Clinical Psychology.*
- 2000-present Editorial Board member, *Journal of Studies on Alcohol*
- 1998 Deputy Director, Research Branch, Center on Alcoholism, Substance Abuse and Addictions (CASAA), University of New Mexico.
- 1996-98 Co-Director, Research Branch, Center on Alcoholism, Substance Abuse and Addictions (CASAA), University of New Mexico.

- 1996-01 Associate Research Professor of Psychology, University of New Mexico
- 1993-96 Deputy Director Research Division, Center on Alcoholism, Substance Abuse, and Addictions (CASAA), University of New Mexico.
- 1993 – 95 Assistant Research Professor of Psychology, University of New Mexico, Department of Psychology, Albuquerque, New Mexico.
- 1989-92 Senior Research Associate, Project MATCH, Department of Psychology, University of New Mexico, Principal Investigator, William R. Miller, Ph.D.. Responsibilities: Develop and monitor on-site implementation of data management system for 5 year NIAAA grant. Development of screening and outcome assessment instruments, and conduct validity and reliability analyses.
- 1988-89 Director of Research, Development Office, University of New Mexico Director, Joseph Skehen. Responsibilities: Generate statistical reports, and interface IDMS mainframe and PC databases. Assist in data base conversion.
- 1987-88 Research assistant, Research Advisory Services (RAS), College of Education, University of New Mexico, Director, Judith Wilde, Ph.D.. Responsibilities: Conduct validity and reliability assessments of researcher constructed instruments. Assist faculty and staff in planning outcome assessments, statistical analyses (univariate and multivariate), and instruction of statistics.
- 1985-87 Graduate assistant, College of Education, University of New Mexico, Associate Dean Wayne Maes, Ph.D. Responsibilities: Conduct psychometric assessment of entrance and competency-based testing policies used for college applicants and graduates.
- 1983-85 Graduate assistant, Department of Educational Foundations, College of Education, University of New Mexico.
- 1982-83 Director Navajo Academy Evening Academic program, Farmington, NM Platero, Farmington New Mexico.

### **Professional Service**

- 2009 Co-Chair, Special Emphasis Panel/Scientific Review Group 2009/10 ZAA1 DD (01)
- 2008 Clinical and treatment Health Services subcommittee (NIAAA) initial review group (AA-3)
- 2008 Chair, Institutional Review Board, University of New Mexico. Albuquerque, NM
- 2008 Invited review, National Institute on Alcohol Abuse and Alcoholism (July, ZAA1 BB)
- 2008 Ad hoc reviewer, Clinical and treatment Health Services subcommittee (NIAAA) initial review group (AA-3)
- 2008 Chair, NIH, L-30 & L-40 Loan Repayment Program Review Panel (April, ZAA1 EE (70))

- 2007 Chair, NIH, L-30 & L-40 Loan Repayment Program Review Panel (July, NIAAA)
- 2007 Ad hoc reviewer, Clinical and treatment subcommittee (NIAAA) initial review group (AA-3)
- 2006 Invited review (August) Special Emphasis Panel, (ZAA1 AA 70 1).
- 2005 Invited review (November), Health Services subcommittee initial review group (AA-2)
- 2005 Invited review(July), Health Services subcommittee initial review group (AA-2)
- 2006 Chair, NIH, L-30 & L-40 Loan Repayment Program Review Panel (NIAAA)
- 2005 Member, NIH, Loan Repayment Program Review (NIAAA)
- 2004 SAMHSA, Field Reviewer, SM 04-007 (PE1) , Alternatives to Restraint and Seclusion With Severely Mentally Ill Individuals
- 2004 Member, NIH, Loan Repayment Program Review (NIAAA)
- 2003 Member, Clinical and treatment subcommittee (NIAAA) initial review group (AA-3)
- 2003 SAMHSA Field Reviewer:SP03-006, Prevention of Methamphetamine and inhalant abuse
- 2002 NIDA Field Reviewer (B-START; PAR-01-014)
- 2002 NIH Study Special Section Panel member: NIAAA
- 1998 - present Member, Institutional Review Board (IRB), University of New Mexico
- 1995 NIAAA, Measurement and treatment outcome consultant, co-author A Guide for Clinicians and Researchers. NIAAA Treatment Handbook Series 2: Alcoholism Treatment Assessment Research Instruments

**Active Grants:**

**AA Social Dynamics: The context for mobilizing behavior change (NIAAA. K02-AA00326-06, Tonigan, J.S., PI)**

This mid-career development award is intended to sustain Dr. Tonigan's AA-based research. Objectives of this award are to gain training in multilevel statistics, to establish a foundation in the social psychology of AA group dynamics, and to continue mentoring junior scientists in addictions research.

**Southwest Clinical Trials Network Node (NIDA, U10DA1533, Tonigan, J. S., Co-I)**

This multisite cooperative agreement is intended to partner with community-based treatment providers to

assess the efficacy and effectiveness of various pharmacotherapy and psychosocial treatments for substance abuse. Dr. Tonigan is Co-I for the Albuquerque node.

**Therapeutic Mechanisms in AA (NIAAA, R21AA016974-01, Tonigan, J. S., PI)**

This study will investigate the plausibility that prescribed AA-related behaviors account for AA-related benefit. Specifically, a formal set of prescribed practices are stated in the core AA literature, but investigators have been reticent to use this literature for modeling AA-related causal change mechanisms, e.g., reduced narcissism. This study will address this gap, and will do so using a longitudinal single-group design.

**A transtheoretical model of AA-related behavior change, (NIAAA: R01AA014197-01A1, Tonigan, J. S., PI)**

This study will prospectively and jointly test cognitive behavioral and AA-specific models to explain reductions in drinking and illicit drug use among AA exposed individuals over a 24-month period (N = 300). Study recruitment began in September 2004.

**Mechanisms and Moderators of Behavior Change in Alcoholics Anonymous, (NIAAA 1 R21 AA016762, Kelly, PI)**

This is a secondary data analysis project to study AA-related mechanisms that explain increased abstinence. Using data from Project MATCH, will examine AA-specific mediators in conjunction with other mediators not specific to AA. Moderators of the effects of AA will also be studied. Finally, the interplay between AA and formal treatment in determining outcome will be examined. This project is administered by Massachusetts General Hospital.

**Helping Others and Long-term Outcomes among Youth with Substance Use Disorders.( Templeton Foundation, Pagano, PI)**

This is a naturalistic follow-up study of adolescents with substance abuse problems. The project has three primary aims: (1) to validate the “Helping Others” questionnaire, (2) to investigate faith-based mechanisms for sustaining service over time, and (3) to examine health and social outcomes in relation to youth involvement in service. Administered by Case Western University.

**Controlling for Endogeneity Biases in Estimating AA Effects on Drinking Outcomes (NIAAA, R21 AA017906-01, Magura PI)**

This study is a secondary data analysis using statistical approaches to control for endogeneity biases such as self-selection and reverse causation in evaluating AA efficacy. Secondary analyses will be done using the Project MATCH data set, and Dr. Tonigan will provide consultation in the areas of measurement, statistical analyses, and preparation of manuscripts.

**Selected Completed Grants**

**COMBINE (NIAAA, 8-42U-7901, Tonigan, J. S. PI)**

COMBINE was a large multisite trial investigating the relative effectiveness of pharmacotherapy, CBI, and Medical Management. While the recruitment, follow-up, and the initial reporting of results have been

completed, the trial continues to operate to sustain the mining of a rich data set.

**Relapse precipitants: Replication of Marlatts relapse taxonomy (NIAAA: N01AA10006, Tonigan, J.S, PI).**

This study was a multisite trial that investigated the replicability of Marlatts relapse taxonomy across diverse alcohol abusing populations. Efforts this past year focused on dissemination of findings and finalization of a public domain data base and companion user manual

**Spiritual practices and altruistic love: Two studies of Alcoholics Anonymous members (Fetzer Institute, Tonigan, J. S., PI).**

This study included cross-sectional sampling of 5 AA groups and the addition of measures to an ongoing 10-year follow-up of the Project MATCH sample, R21AA13073-01. Study aims focused on the mediating role of prescribed AA-related practices on the development of altruism.

**Longitudinal study of change in AA, (NIAAA: K02-AA00326-01, Tonigan, J. S., PI).**

This award is intended to launch Dr. Tonigan's programmatic research on AA. Career development and research activities are now in year 3, with highest priorities assigned to mentoring junior scientist, acquiring training in psychopathology and advanced statistical techniques, and acquisition of extramural research.

**Spirituality and AA practices: 10 year MATCH follow-up (NIAAA: R21AA13073-01, Tonigan, J. S., PI).**

This study examined the temporal relationships between prescribed AA-related behaviors, spiritual development, and drinking by conducting a 10-year follow-up of the Project MATCH sample recruited at the Albuquerque clinical research unit.

**Cost-effectiveness Ancillary COMBINE Study (NIAAA, Tonigan, J. S., PI)**

This study will evaluate the relative costs/benefits associated with pharmacotherapy and therapy alone. Clients are being actively recruited, and extended follow-up up to 3-years are now in progress.

**Formal Grant Mentoring**

K23AA000310, Schermer, C. (PI) Prevention of DUI recidivism after trauma (NIAAA).

K23DA000506, Villanueva, M. (PI) Zuni Pueblo veteran project (NIDA).

K23AA014267, Baca, C. (PI). Primary care intervention for alcohol problems (NIAAA).

K23AA014207, Venner, K., (PI) Culturally appropriate treatment for Native Americans. (NIAAA).

K23AA016544 Thoma, Robert J. (PI) Brain and Behavioral Impairment in Alcohol Dependence and

K23 (pending) Brown, Anthony, (PI). Community-based faith treatment programs (NIAAA)

K02AA000325, Bates, M. (PI). Complex brain behavior relations in alcohol studies (NIAAA).

K01AA015137 Pagano, M. (PI). Service to Others and Long-term Alcohol Outcomes (NIAAA).

## **Grant Consultation**

R03AA014578, Cloud, R. (PI). Improving posttreatment Alcoholics Anonymous utilization (NIAAA).

R21AA013761, Kingree, J. (PI). Measuring AA involvement with the Health Belief Model (NIAAA).

R21AA014226, Clifford, P. (PI). Post-treatment alcohol use and longer-term functioning (NIAAA).

R01AA014442 Robinson, E. (PI) Long-term spiritual changes in recovery from alcoholism (NIAAA)

R21AA016762 Kelly, J (PI). Mediators and moderators of Project MATCH Outcomes (NIAAA)

R01AA014688, Kaskutas, L. (PI). Making AA easier: A group TSF approach (NIAAA)

R21AA016929 Stout, R. (PI). Longitudinal study of mechanisms of alcohol recovery (NIAAA)

## **Statistical Consultation**

Multidisciplinary approach to reduce injury and alcohol use, (NIAAA, R01AA015439, Field, C., PI) Training in, and evaluation of, Form90. Dallas, TX.

Unilateral Family Intervention for Drug Problems, NIDA, Statistical consultant, 5% (completed). University of New Mexico.

Treatment Evaluation and Adult Mentoring, CSAT, Statistical consultant **5%** (active). University of New Mexico.

Treatment Outcome with Runaway Adolescents, NIDA, Statistical consultant 5% (active). University of New Mexico.

Alcohol and Drug Faculty Development Program, NIAAA (T01-AA07540), Program evaluator. University of New Mexico.

Randomized Clinical Trial of Sertraline in Alcoholism Treatment, NIAAA (R01-AA09549), Statistical consultant, 10% (completed). University of New Mexico.

Clinical Trial of Interventions with Significant Others, NIAAA (R01-AA09774), Statistical consultant, 10% (completed). University of New Mexico.

Intercessory Prayer Study, (R21RR09440) NIH Office of Alternative Medicine, statistical consultant, 10% (completed). University of New Mexico.

## **College Instruction & Mentoring**

1989 *Theory and Practice of Consultation*, Co-instructor, Department of Educational Administration, University of New Mexico. A graduate level course designed to introduce students to the behavioral, cognitive and systems model approaches as applied to consultation in educational and social services agencies.

1998 to Present. *Alcoholism Course*, Psychology 430/630 (upper division and graduate) 3-credit course on theories of the etiology of alcoholism, and the relative effectiveness of alternative formal treatments. It is a popular lecture course, enrolling 100-200 students. I have instructed units on mutual help participation and benefits.

*Mentoring.* Currently serving on 5 thesis and 6 dissertation committees, Department of Psychology, UNM.

Director & Instructor, CASAA Grant writing 501 Seminar. A 12-week course that introduces aspiring NIH and NSF investigators to strengthen skills that are necessary to acquire extramural funding. Topics of the seminar include, budget preparation, navigating the IRB process, writing specific sections of NIH & NSF applications, statistical and power analysis sections, and identifying grant mechanisms. The course is open to graduate students and UNM faculty.

### **Journal Review Consultation**

Journal of Studies on Alcohol  
Addiction, *formerly* British Journal of Addiction  
Psychology of Addictive Behavior  
Journal of Consulting and Clinical Psychology  
Drug and Alcohol Dependence  
Alcoholism: Clinical and Experimental Research  
American Psychologist  
Alcohol Health and Research World  
Archives of Psychiatry

### **Papers currently under review**

Erickson, S. J., Tonigan, J. S., & Winhuesen, T., Therapist effects in a NIDA CTN intervention trial with pregnant substance abusing women: Findings from RCT and provider settings. *Journal of Substance Abuse Treatment*.

Rice, S. L., & Tonigan, J. S., (submitted). Impressions of Alcoholics Anonymous (AA) social dynamics: A case for non-specific factors predicting later substance use, *Alcohol Clinical and Experimental Research*.

Robert Thoma, <sup>1</sup>David Ruhl, <sup>5</sup>Paul Mullins, <sup>3</sup>Ronald A. Yeo, Arvind Caprihan, <sup>1,3</sup>Mollie Monnig, <sup>2</sup>Michael Bogenschutz, <sup>3</sup>Per Lysne, M.S., Scott Tonigan, , and <sup>1,3</sup>Charles Gasparovic, (submitted) Perturbation of the glutamate-glutamine system in alcohol dependence and remission, *Alcohol Clinical and Experimental Research*.

### **Publications 2010**

Dunlap J; Zarkin G.A; Bray JW; Mills, M, Kivlahan DR, McKay, J R; Latham P, & Tonigan J S, (2010) Revisiting the cost-effectiveness of the COMBINE study for alcohol dependent patients: the patient perspective. *Medical care* ;48(4):306-13.

Kelly J. F., Stout, R. L., Tonigan, J. S., Magill, M., & Pagano, M. E., (2010) Negative affect, relapse, and Alcoholics Anonymous (AA): Does AA work by reducing anger? *Journal of Studies on Alcohol and Drugs*, 71, 3, 434-444.

Kelly J F, Stout R L, Magill M, Tonigan J S, Pagano M E. (2010). Mechanisms of behavior change in

alcoholics anonymous: does Alcoholics Anonymous lead to better alcohol use outcomes by reducing depression symptoms? *Addiction* (Abingdon, England) 105(4):626-36.

Smith, J. P., & Tonigan, J. S. (in press). Relative Engagement and Benefit from Alcoholics Anonymous among Alcoholics Living Alone. *Alcohol Clinical and Experimental Research*.

Thoma, R.J., Hill, D.E., Kuny, A., Vermont, L., and Tonigan, J.S. (2010). Adolescent Self-Reported Alcohol/Other Drug Use Consequences: Moderators of Self- and Parent Agreement Alcoholism Treatment Quarterly, Volume 28 Issue 2, 101

Tonigan, J. S., Book, S. W., Pagano, M. E., Randall, P. K., Smith, J., & Randall, C. (2010). 12-Step Therapy and Women with and without Social Phobia: A Study of the Effectiveness of 12-Step Therapy to Facilitate AA Engagement, *Alcoholism Treatment Quarterly*, 28, 151-162.

Tonigan, J. S., & Rice, S. L. (in press). Is it beneficial to have an AA sponsor? *Psychology of Addictive Behaviors*.

### **Published Abstracts 2010**

Arce, A., Schuster, L., Monnig, M., Pommy, J., Ruhl, D. A., Lynse, P., Yeo, R., Tonigan, J. S., & Thoma, R. J. (2010). Gender differences in emotional and personality styles in adolescents with alcohol use disorders, *Alcoholism: Clinical and Experimental Research*, 34(6, Supplement), 638 (Abstract).

Ladd, B. O., McCrady, B. S., Hutchinson, K. E., & Tonigan, J. S. (2010). The effects of drinkers' concerned significant others on alcohol cue reactivity, *Alcoholism: Clinical and Experimental Research*, 34(6, Supplement), 606 (Abstract).

Lynse, P., Monnig, M., Ruhl, D. A., Yeo, R., Schendel, M. G., Pommy, J., Muraida, S., Euler, Caprihan, A., Gasparovic, C., Mayer, A. P., Hill, D. E., Tonigan, J. S., Thoma, R. J. (2010). Abnormal frontal lobe activation: Attention and executive functioning in adolescents with alcohol use disorders. *Alcoholism: Clinical and Experimental Research*, 34(6, Supplement), 065 (Abstract).

Monnig, M., Caprihan, A., Ruhl, D., Lynse, P., Pommy, J., Tonigan, J. S., Yeo, R., Thoma, R. J. (2010). Differential effects of drinking intensity and total alcohol consumption on white matter in individuals with alcohol use disorders, *Alcoholism: Clinical and Experimental Research*, 34(6, Supplement), 056 (Abstract).

Monnig, M., Thoma, R. J., Ruhl, D., Lynse, P., Pommy, J., Tonigan, J. S., & Yeo, R., (2010). Effects of alcohol, marijuana, nicotine, and risk for alcohol use disorder on neuropsychological performance in adolescents, , *Alcoholism: Clinical and Experimental Research*, 34(6, Supplement), 432 (Abstract).

Pagano, M. E., Stout, R. L., Kelly, J. F., Johnson, S. M., & Tonigan, J. S. (2010). Helping others and long-term outcomes: A 10 year follow-up study in Project MATCH, *Alcoholism: Clinical and Experimental Research*, 34(6, Supplement), 651 (Abstract).

Rice, S. L., & Tonigan, J. S. (2010). The trajectory of readiness to change: Ambivalence, problem recognition, taking steps, and abstinence, *Alcoholism: Clinical and Experimental Research*, 34(6, Supplement), 877 (Abstract).

Stout, R. L., Kelly, J. F., Magill, M., Tonigan, J. S., & Pagano, M. E. (2010). Parametric analysis of social network characteristics as predictors of long-term drinking. Alcoholism: Clinical and Experimental Research, 34(6, Supplement), 883 (Abstract).

Thoma, R. J., Lysne, p., Ruhl, D. A., Monnig, M., Pommy, J., Schendel, M., Yeo, R., Bogenschutz, M., & Tonigan, J. S. (2010). Intra hemispheric auditory information processing deficits in alcohol use disorders revealed using magnetoencephalography, Alcoholism: Clinical and Experimental Research, 34(6, Supplement), 048 (Abstract).

Tonigan, A., & Tonigan, J. S., Confidence to abstain and Alcoholics Anonymous (AA) attendance: Investigation of the nature of abstinence self-efficacy, Alcoholism: Clinical and Experimental Research, 34(6, Supplement), 653 (Abstract).

Tonigan, J. S., & Rice, S. L., The importance of early impressions about AA usefulness for later abstinence, Alcoholism: Clinical and Experimental Research, 34(6, Supplement), 654 (Abstract).

### **Publications 2009**

Bogenschutz, M. P., Abbott, P.J. Kushner, R., Tonigan, J. S., & Woody, G. E. (in press) Effects of buprenorphine and hepatitis C on liver enzymes in adolescents and young adults. *Journal of Addiction Medicine*.

Bogenschutz, M. P. , Tonigan, J. S., & Pettinati, H. M., (2009). Effects of alcoholism typology on response to naltrexone in the COMBINE trial, *Alcoholism: Clinical and Experimental Research*.33, 1,p 10-18.

Forcehimes, A. A., & Tonigan, J. S. (in press). Spirituality and Substance Use Disorders, in (Koenig, H. G. , ed), Cambridge University Press.

McCrary, B. S. & Tonigan, J. S. (2009). Recent research into twelve step programs. In: R. Ries, D. Fiellin, S. Miller, & R. Saitz, (Eds), *Principles of addiction medicine, Fourth edition* (pps. 923-937). Baltimore, MD: Lippincott Williams & Wilkins.

Moyers, T. B., Martin, T., Houck, J.M., Christopher, P.J. & Tonigan, J.S. (2009). From in-session behaviors to drinking outcomes: A causal chain for motivational interviewing. *Journal of Consulting and Clinical Psychology*. 77(6):1113-24.

Smith, B. W., & Tonigan, J. S., (2009). AA benefit and social attachment, *Alcoholism Treatment Quarterly*. 27, 2.

Smith, J. P., & Tonigan, J. S. (in press). Relative Engagement and Benefit from Alcoholics Anonymous among Alcoholics Living Alone. *Alcohol Clinical and Experimental Research*.

Thoma, R.J., Hill, D.E., Tonigan, J.S., Kuny, A.V., Vermont, L.N. & Lewine, J.D. (in press). Adolescent self-reported substance use consequences: moderators of self and parent agreement. *Alcohol Treatment Quarterly*.

Tonigan, J. S., & Forcehimes, A. A. (in press). Religion, spirituality and addiction: An empirical review, in *Addictive Disorders and Substance Abuse* (Johnson, B. A., ed), Springer Publishing.

### **Published Abstracts 2009**

Bogenschutz, M. P. Forcehimes, A. A. & Tonigan, J. S. Administration of Buprenorphene for Adolescent Substance Abuse in a CTN Clinical trial: Trajectories of Substance e Use During Active Treatment College on Problems of Drug Dependence.

Chavez, R., O’Nuska III, M., Tonigan, J. S. The evaluation of data quality control in a large 5-year clinical trial. Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 1017 (Abstract).

Greenfield, B. L., Tonigan, J. S., & Venner, K. L. Trajectories of alcohol dependence and resolution in Native Americans, Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 246 (Abstract).

Hallgren, K. A., McCrady, B., Epstein, E. E., & Tonigan, J. S. Self Versus Collateral Report of Abstinence Self-Efficacy: Predicting Pre- and Post-Treatment Drinking Outcomes, Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 917 (Abstract).

Kelly, J. F. Stout, R. L., Tonigan, J. S., & Magill, M. Negative Affect, Relapse, and Alcoholics Anonymous: Does AA work by reducing depressive symptoms? Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 146 (Abstract).

Ladd, B. O., McCrady, B. S. Epstein, E. E., & Tonigan, J. S. The Factor Structure of the Important People Interview: A Replication Study, Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 721 (Abstract).

O’Nuska III, M., Chavez, R. & Tonigan, J. S. Quality control and data entry: A longitudinal perspective, Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 1017. (Abstract).

Smith, J. P., & Tonigan, J. S. Relative engagement and benefit from Alcoholics Anonymous (AA) among alcoholics living alone. Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 143. (Abstract).

Tonigan, J. S. McCrady, B, Toscova, R. Changes in abstinence during early AA attendance: Does pathway into AA moderate AA-related benefit? Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 141. (Abstract).

Tonigan, J. S. Moderators of longitudinal growth rates of AA attendance. Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 142. (Abstract).

Toscova, R. T. & Tonigan, J. S. (2009). Alcoholics Anonymous (AA) and social attachment, Alcoholism: Clinical and Experimental Research, 33(6, Supplement), 144. (Abstract).

### **Publications 2008**

Connors, G. J., Walitzer, K. S., & Tonigan, J. S. (2008). Spiritual change in recovery. In M. Galanter &

L. A. Kaskutas (Eds.), Recent developments in alcoholism: Alcoholics Anonymous and spiritual aspects of recovery (vol. 18) (pp. 213-231). New York: Springer.

Erickson, S. J., & Tonigan, J. S. (2008). Trauma and intravenous drug use among pregnant women: Factors in predicting child abuse potential. *Alcoholism Treatment Quarterly*, 26, 3, p313-332.

Forcehimes, A., & Tonigan, J. S. (2008). Self-Efficacy to Remain Abstinent and Substance Abuse: A Meta-Analysis, *Alcoholism Treatment Quarterly*, 26, 4.

Freyer-Adam J, Coder B, Ottersbach C, Tonigan JS, Rumpf H-J, John U Hapke U (2009). The Performance of Two Motivation Measures and Outcome after Alcohol Detoxification, *Alcohol and Alcoholism*, 44(1): 77-83.

Hettema, J. E., Miller, W. R., Tonigan, J. S., & Delaney, H. (2008). The reliability of the Form 90-DWI: An instrument for assessing intoxicated drivers. *Psychology of Addictive Behaviors*, 22, 1, p 117-121.

Tonigan, J. S. (in press) Al-Anon. *Encyclopedia of Drugs, Alcohol & Addictive Behavior*, 3rd ed.

Tonigan, J. S. (2008). Alcoholics Anonymous outcomes and benefits. In M. Galanter & L. A. Kaskutas (Eds.), Recent developments in alcoholism: Alcoholics Anonymous and spiritual aspects of recovery (vol. 18) (pp. 359-374). New York: Springer.

Tonigan, J. S. (2008). Introduction: Alcoholics Anonymous outcomes. In M. Galanter & L. A. Kaskutas (Eds.), Recent developments in alcoholism: Alcoholics Anonymous and spiritual aspects of recovery (vol. 18) (pp. 353-358). New York: Springer.

### **Published Abstracts 2008**

Baca, C. T., Manuel, J. K., & Tonigan, J. S. (2008). Tele-motivational interviewing for rural areas, . Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 707. (Abstract).

Bogenschutz, M. P., Nowinski, J., Tonigan, J. S., Kushner, R., Vogel, H., Hume, D., Treacher, R., & Hyde, R. (2008). Training and fidelity monitoring of 12-step facilitation for alcoholics with serious psychiatric disorders, Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 707. (Abstract).

Bogenschutz, M. P., Pettinati, H. M., Anton, R. F., & Tonigan, J. S. (2008). Naltrexone, alcohol subtypes, craving, and drinking outcome in the COMBINE trial. Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 984 (Abstract).

Bogenschutz, M. P., Kushner, R., Tonigan, J. S., & Woody, G. E., (2008). Effects of buprenorphine and hepatitis C on liver enzymes in adolescents and young adults, *College on Problems of Drug Dependence*, Puerto Rico.

Bogenschutz, M. P., Pallas, D., Foley, K., Daw, R., Tonigan, J. S., & Forcehimes, A. A. (2008). Effect of job skills training on employment and job seeking behaviors in a Native American substance abuse treatment sample, Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 742 (Abstract).

Bogenschutz, M. P., Hume, D., Vogel, H., Nowinski, J., Baca, A., & Tonigan, J. S. (2008). Enhancing 12-

step participation among drinkers with serious mental illness, Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 696. (Abstract).

Brown AE, Pavlik VN, Tonigan JS, Volk RJ, Kosten TR. Spirituality predicts confidence to resist substance use among Celebrate Recovery Participants. To be presented at the Research Society on Alcoholism, Washington D.C., July 1<sup>st</sup>, 2008.

Erickson, S. J., Tonigan, J. S., & Bogenschutz, M. P. (2008). Therapist effects in the treatment of pregnant substance abusers: Clinical Trials Network # 13, College on Problems of Drug Dependence, Puerto Rico.

Foley, K., Pallas, D., Bogenschutz, M. P., Forcehimes, A. A., Svikis, D., & Tonigan, J. S. (2008). Treatment history and job seeking behaviors among Native Americans, College on Problems of Drug Dependence, Puerto Rico.

Forcehimes, A. A., Bogenschutz, M. P., Tonigan, J. S., & Woody, G. E. (2008). Impact of therapeutic alliance on treatment outcome in opioid dependent adolescents and young adults treated with buprenorphine, College on Problems of Drug Dependence, Puerto Rico.

Ladd, B. O., & Tonigan, J. S. (under review). An examination of the construct of self-efficacy in a sample of problem drinkers, ABCT, November, 2008.

Lenberg, K. L., Pena-Esparza, Y., Austin, J. L., Tonigan, J. S., & Venner, K. L. (2008). Drinking refusal self-efficacy: A psychometric analysis in American Indian/Alaska Native and non-Hispanic white college students. Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 754. (Abstract).

Pagano, M. E., Book, S. W., Mace, A., Randall, C. L., & Tonigan, J. S. (2008). Alcoholics seeking treatment: Does co-occurring social anxiety disorder interfere with AA affiliation? Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 704. (Abstract).

Thoma, R. J., & Tonigan, J. S. (2008). Intellectual ability, treatment, and 3-year drinking outcomes, Alcoholism: Clinical and Experimental Research, 32(6, Supplement), 727. (Abstract).

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Tonigan, J. S. (September, 2008). Motivational Interviewing: Active ingredients of an evidence-based intervention for substance abuse. Japanese Society for Psychiatric Research on Alcoholism (JSPRA) and the Japanese Forum on Nicotine and Drug Dependence Studies (JFNDDS) Joint Meeting. Yokohama, Japan.

Tonigan, J. S. (2008). Making sense of mechanisms of change in mutual-help research. Plenary presentation. Modeling behavior change over time: The 12-step experience. Pre-conference satellite session, Research Society on Alcoholism, Washington, D.C.

Tonigan, J. S. (March, 2008). Examination of the active ingredients of Twelve Step Facilitation, and Alcoholics Anonymous, Plenary presentation. Addiction medicine conference for family physicians, Vancouver Island Health Authority, Vancouver.

Tonigan, J. S. (March, 2008). New Approaches to stages of change: An evidence-based perspective. Plenary presentation. Addiction medicine conference for family physicians, Vancouver Island Health Authority, Vancouver.

Tonigan, J. S. (November, 2007). 12-Step Therapy and Alcoholics Anonymous: An Evidence-Based Approach, Plenary Presentation. Western Canadian Addictions Conference, Vancouver, Canada.

Tonigan, J. S. (July, 2007). AA involvement during and after COMBINE treatment. Symposia chairs, Allen Zweben & Helen Pettinatti, Chicago, IL.

Tonigan, J. S. (December, 2006). The effectiveness of Twelve step therapy and community-based AA: An evidence-based approach. American Academy of Addiction Psychiatry, Tampa Bay, FL.

Tonigan, J.S. (July, 2006). The many faces of spirituality: Mythology and 12-step programs. Plenary address at the International Society of Personal Meaning, Vancouver, CA.

Tonigan, J. S. (June, 2006). Mechanisms of change: Writing NIH applications. Pre-conference workshop, Research Society on Alcoholism, Baltimore, MA.

Tonigan, J.S. (January, 2006). When AA is not enough: Behavior change processes that may predict the escalation to seeking formal alcohol treatment. Eleventh International Conference on Treatment of Addictive Behaviors (ICTAB), Symposium chair, Santa Fe, New Mexico.

Tonigan, J. S. (November, 2005). AA and 12-step therapy: Mechanisms of action and a conceptual model. NIAAA sponsored conference, Mechanisms of Change Initiative, Bethesda.

Tonigan, J. S. (November, 2005). Research-based strategies and assessment tools for identifying and assisting substance abusers in faith communities. Enhancing linkages with the drug abuse treatment system: The role of faith leaders, communities, and organizations, NIDA sponsored conference, Bethesda, MA.

Tonigan, J. S. (September, 2005). Project MATCH: Matching alcohol treatments to client heterogeneity. Presentation at the Wisconsin Bureau of Mental Health and Substance Abuse Services Teleconference Series.

Tonigan, J.S. (June, 2005). Co-Chair, Pre conference satellite session, The search for mechanisms of change in evidence-based behavioral treatments, Research Society on Alcoholism, Santa Barbara, CA.

Tonigan, J.S., (June, 2005). Chair, Pre conference satellite session, Second Annual State of the Art Mutual-help Research Conference, Research Society on Alcoholism, Santa Barbara, CA.

Tonigan, J. S. (June, 2005). Long-term patterns and benefits of self-help: 10-year follow-up of the Project MATCH Albuquerque sample, Accepted symposia to CPDD, Orlando FL.

Tonigan, J. S. (April, 2005). Examination of the active ingredients of Twelve-step Facilitation (TSF) and Alcoholics Anonymous, Workshop presentation at the Annual ASAM conference, Dallas, TX.

Tonigan, J. S. (April, 2005). From Spirits to Spirituality. Symposium presentation at the Annual ASAM conference, Dallas, TX.

Tonigan, J. S. (2004, November). Plenary Speaker. The Nature and Role of Spirituality in Recovery From Addiction: Investigation of Unquestioned Answers. Association for Medical Education and Research on Substance Abuse, Washington, D.C.

Tonigan, J.S. (2004, September). Amazing Grace? Religion, Spirituality, and Substance Abuse Treatment. National Center on Addictions and Substance Abuse (CASA).

Tonigan, J.S.(2004, June). Examination of the Active Ingredients of Twelve Step Facilitation & Alcoholics Anonymous, 26<sup>th</sup> Annual Research Society on Alcoholism, Vancouver, BC.

Tonigan, J. S. (2004, June) Program organizer, State-of-the-art Mutual Help Research Satellite Session, 26<sup>th</sup> Annual Research Society on Alcoholism, Vancouver, BC.

Tonigan, J. S. (2004, May) . Spiritual practices and altruistic love: Two studies of Alcoholics Anonymous members, Fetzer Institute, Washington, DC.

Tonigan, J. S. (2004, April). Plenary Speaker, Spirituality and Addictions. Texas Research Society on Alcoholism, Lubbock, TX.

Tonigan, J.S. (2003, November). Alcoholics Anonymous: Involvement and Disaffiliation. 131<sup>st</sup> Annual meeting of the American Public Health Association, San Francisco, CA.

Tonigan, J. S., (2003, October). Behavioral changes among substance abusers: Investigations of unquestioned answers. Department of Behavioral Science, University of Kentucky, Lexington, Kn.

Tonigan, J.S., (2003, June). Spiritual change as mediator of outcome in MATCH sample, Research Society on Alcoholism, Fort Lauderdale, Fl.

Tonigan, J.S. (2003, June) Project MATCH Treatment Engagement and Outcome Among Three Ethnic Groups", 9th Biennial Conference on Community Research and Action. Las Vegas, NM.

Tonigan, J.S. (2003, April). Alcohol Abuse, Dependence, and Spirituality. International Center for the Integration of Health and Spirituality (ICIHS). National Institute of Health, Bethesda, MD.

Tonigan, J.S. (2003, March). Spirituality and AA practices: 10-Year Project MATCH follow-up. Society for Behavioral Medicine, Salt Lake, UT.

Tonigan, J. S, (2002, October). Project MATCH: Main and Interaction Effects. California Society of Addiction Medicine, Los Angeles, CA

Tonigan, J. S. (2002, September). Project MATCH: Ethnic Treatment Participation and Outcome. Health Disparity Workshop, National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD.

Tonigan, J. S. (2001, October). Project MATCH: Twelve step facilitation and AA participation, California Society of Addiction Medicine, Los Angeles, CA

Tonigan, J. S. (2001, September). Mythology and Evidenced-based Knowledge about AA, annual conference, Behavior Change in Addictions, Glasgow, Scotland..

Tonigan, J. S. (2001, September). New Research on Alcoholics Anonymous: Myths and Treatment Implications, annual conference, CASAA State of the Art Conference, Albuquerque, New Mexico.

Tonigan, J. S. (2000, November). Spirituality and AA: Recent findings and implications. Symposium submitted for consideration at the annual AABT conference, Chair: John E. Perez, Yale University.

Tonigan, J. S. (2000, Jan). Structural Equation modeling: Cross-cultural applications. Presented at the Mental Health Mentoring and Education Program Conference, Albuquerque, N.M.

Tonigan, J. S. (1999, June). Adverse Consequences of Alcohol use and measurement of Quality of life. Accepted at the Research Society on Alcoholism annual conference, Santa Barbara, CA.

Tonigan, J. S. (1999, Feb). Spirituality in 12 step programs, presented at the Spirituality and Alcohol Conference sponsored by the Fetzer Institute and the National Institute on Alcoholism and Alcohol Abuse, Washington D.C.

Tonigan, J. S., Miller, W. R., & Toscova, R. T. (1998, June). Does the 12-step approach work? Symposium, Research on Alcoholics Anonymous: Current findings and future directions, accepted at the Research Society on Alcoholism annual conference, Hilton Head, SC.

Tonigan, J. S. (1997, May). Using Twelve-Step Fellowships in Treatment and Case Management. Addressing Addictions in New Mexico: A State-of-the-art Conference for Health Professionals, Albuquerque, New Mexico.

Tonigan, J. S. (1997, April). AA Involvement and treatment outcome: Project MATCH, symposium held at ASAM, San Diego.

Tonigan, J. S., (1996, September). Effects of Alcoholics Anonymous involvement. Accepted symposium presentation at international conference, Addictions 1996, Hilton Head Island, SC.

Tonigan, J. S., (1996). Expert Panel member in the Research Development Conference Series conducted by NIHR/Templeton Foundation, Spirituality and Addictions, Leesburg, VA.

Tonigan, J. S. (1995, July). AA and the treatment world, Workshop presentation in symposium, Alcoholics Anonymous at age 60, Kentucky School for Alcohol and Drug Studies, Northern Kentucky University, Kentucky.

Tonigan, J. S., Connors, G. J., & Miller, W. R. (1996, November). Meaning-seeking and differential Twelve Step Facilitation treatment response, Accepted symposium presentation, Project MATCH: Matching results and processes, for AABT in Washington, DC.

Tonigan, J. S. & Toscova, R. (1994, June). Meta-analysis of the Alcoholics Anonymous Literature: A search for moderating variables. Symposium presentation at Research Society on Alcoholism, Meta-Analysis in the Psychological Literature, Maui, HI.

Tonigan, J. S. (1993, June). Statistical dilemmas. Didactic Workshop on Alcohol Treatment Research and Evaluation, National Institute on Alcohol Abuse and Alcoholism, San Antonio, TX.

Tonigan, J. S., Miller, W.R., Connors, G. J., & Montgomery, H. A. (1991). The AA Involvement Questionnaire. Unpublished instrument, University of New Mexico. Center on Alcoholism, Substance Abuse, and Addictions, (CASAA).

Tonigan, J. S., Miller, W. R., Connors, G. J. (1991). The Religious Background and Beliefs Scale (RBB) Unpublished instrument, University of New Mexico, Center on Alcoholism, Substance Abuse, and Addictions, (CASAA).

Tonigan, J. S. & Miller, W. R. (1992, November). The Drinker Inventory of Consequences (DrInC): Development and validation of an instrument for assessing alcohol-related problems. Paper presented at the annual meeting of the Association of Advance Behavior Therapist, Boston, MA.

Tonigan, J. S., (1994, May). Program evaluation: Design and statistical considerations, Program Evaluation Workshop, Albuquerque, New Mexico.

Tonigan, J.S., Miller, W.R., & Vick, D., (2000, June). Psychometric properties and stability of the General Alcoholics Anonymous Tools of Recovery (GAATOR, 2.1), Poster prepared for the annual conference, Research Society on Alcoholism, Denver, CO

Philip A. May, PhD, J. Phillip Gossage, PhD, and J. Scott Tonigan, PhD. Analysis of Alcohol Consumption Patterns (Abstainers, Occasional, Regular, and Heavy Drinkers) and Alcohol-Related Problems Within Four American Indian Communities. 128<sup>th</sup> Annual meeting of APHA. Albuquerque, NM 87106

Westerberg, V. S., Tonigan, J. S., & Miller, W. R. (1993, January). The topography of relapse: Mapping the contours in an alcohol dependent clinical sample. Paper presented at the annual meeting of the International Conference on Treatment of Addictive Behaviors (ICTAB-6) in Santa Fe, NM.

Westerberg, V. S., Miller, W. R, Harris, R., & Tonigan, J. S. (May, 1995). What is a relapse? In C. Lowman (Chair), Precipitants of relapse: Assessing the paradigm. Symposium at the Seventh International Conference on Treatment of Addictive Behavior, Leeuwenhorst Center, The Netherlands.

Westerberg, V. S., Miller, W. R., & Tonigan, J. S. (November, 1995). Prospective prediction of relapse: Alternative models. Presented at AABT symposium, Assessing Alternative Approaches to Predicting Relapse (AABT, Washington, D.C.)

Wilde, J., Gordon, W., & Tonigan, J. S. (1988, April). Survey research: Why respond? Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Yahne, C.E., Tonigan, J.S., & Miller, W.R. (2000, June). Motivational interviewing with outpatient cocaine-abusing adults, Presentation at the 62<sup>nd</sup> Annual scientific meeting of The College on Problems of Drug Dependence. San Juan, Puerto Rico.

## **TECHNICAL REPORTS**

- 1999        Test-retest Study of the Brief Measure of Religiousness and Spirituality (BMRS): Treatment-seeking Substance Users. John E. Fetzer Institute (1999).
- 1990        Outcome evaluation of a cross cultural primary prevention traffic safety program
- 1991        Institute of Public Law, School of Law, University of New Mexico. Funded by United States Department of Transportation, # DTNH - 89-Z - 15162.
- 1989        Navajo K-12 student enrollment projections and facility planning, co-author. Prepared for the Ganado Unified School District No. 20, Ganado, AZ. Performed data analyze and graphics design.
- 1987        Program approval submission to State Department of Education, prepared by the Department of Educational Administration, University of New Mexico. Perform data analyses of faculty and graduate student ratings of the curriculum.
- 1987        School and Community survey results: Jicarilla Apache Indian Reservation and the Dulce Public School District, sole author. Prepared for Lester Sandoval, Ph.D..Survey instrument construction, data analyses and final report.
- 1986        Jicarilla Apache Department of Education community library needs assessment, sole author. Prepared for Lester Sandoval , Ph.D..Survey instrument construction, data analyses, and final report.
- 1986        Educational specifications Chinle High School, co-author. Prepared for the Chinle Public School Board, Chinle, AZ. Design specifications for microcomputer learning center.

- 1985 Educational needs assessment survey for the relocation of St. Pius X High School Task Force, co-author, Albuquerque, New Mexico. Survey research and specifications for microcomputer learning center.
- 1984 Population estimates and projections of New Mexico's developmentally disabled for the years 1980-2000, co-author. Prepared for the Disabilities Planning Council, Santa Fe, New Mexico. Demographic projections for the New Mexico State Legislature Advisory Council.
- 1982 Educational Planning and management project: Unified School District No. 352, co-author. Prepared student enrollment projections for grades K-12.
- 1980 Kirtland petition study: Central Consolidated School District, co-author. Prepared for the Central Consolidated School Board, Shiprock, New Mexico. Assessed impact of proposed division of school district on Navajo students.
- 1992 Miller, W.R.; Meyers, R.J.; Tonigan, J.S.; Hester, R.K. *"Effectiveness of the community reinforcement approach: Final progress report to the National Institute on Alcohol Abuse and Alcoholism"* Albuquerque, NM: University of New Mexico, Center on Alcoholism, Substance Abuse, and Addictions, 1992. 56 p (122105)