

A Quarterly Review of Social Reports and Research on Social Indicators, Social Trends, and the Quality-of-Life.  
News Included of Research Committee 55 on Social Indicators and Social Reporting of the International Sociological Association.

## PROGRESS IN MEASURING HUMAN SUFFERING

Ronald E. Anderson

The principal focus of quality-of-life (QOL) studies, including those measuring subjective well-being and happiness, has been on positive rather than negative elements whether the study is concerned with subjective or objective measures or both. Consequently, QOL researchers have largely overlooked suffering even though it is common knowledge that those in states of serious suffering may be less able to articulate positive affect or identify positive qualities in their lives. In 1985, Diener, Larsen, Levine & Emmons published their analysis of the inter-relationship between positive and negative affect. Their conclusion was that the degree of the association varied, and it did so largely because of differences in the intensity and frequency of any associated affect (Diener, et al. 1965). This explanation also accounted for the weakening of the correlation between positive and negative affect over time.

The measurement problem of combining positive and negative elements in QOL research results from not only the need to combine positive and negative elements, but because underlying these elements are two separate theoretical constructs, negative QOL and positive QOL, both of which have a natural zero-point, a state at which there exists absolutely zero magnitude of the construct and, therefore, no

scores less than zero exist. On the other hand, the goals of many researchers are to produce a unipolar composite indicator that encompasses the bipolar positive and negative elements, even though it makes a true zero point impossible. Furthermore, in a typical QOL item with response categories labeled “least possible” at one end and “most possible” at the other end, some respondents perceive the zero-point to be at midpoint and others at the bottom of the scale (Alexandrova 2005; Diener, et al. 1986; OECD 2013).

Attempting to overcome these challenges, Krueger and Kahneman (Krueger 2009) invented the U-index, which was operationally defined as the proportion of time a person feels unpleasant. It was a step forward, but few studies have the resources to collect such data over time. In their research, they also examined the relationship between negative experiences yesterday and positive experiences yesterday and found results similar to Diener’s above.

After an extensive review of these challenges and solutions, an OECD report on measurement of well-being concluded:

*“The literature on scale polarity is relatively sparse and largely limited to affect*

*measures, rather than evaluative or eudemonic measures of well-being. Although not widely studied, there is some evidence to support the view that scale polarity matters, in particular for affective measures of well-being” (OECD, 2013; p 88).*

Research by Lelkies (2013) provides the most instructive and important conclusions with regard to these challenges. Using data from 29 European countries, she compared QOL measures of both life satisfaction and happiness for each of several positively defined social groups

(e.g., education and income) with negatively defined social groups (e.g., disabled, unemployed, and ethnic minorities) and found the differences in both of the QOL measures to be two to three times greater within the negatively defined groups rather than within the positively defined groups.

It is my general observation that QOL studies tend to explore positive predictors of QOL more often than negative predictors, which may explain why some studies do not find large social differences in QOL. The fact that QOL indicators generally assess the positive rather than the negative aspects of the underlying constructs also may account for the difficulty in produc-

*(Continued on next page.)*

### In this Issue...

#### REVIEW ESSAY:

Progress in Measuring Human Suffering Worldwide, ..... 1-7

#### ANNOUNCEMENTS:

Report and Message from ISQOLS President .....9

Message from ISQOLS Executive Director .....8

ISQOLS Executive Committee and Board of Directors ..... 10-11

Call For Papers *Applied Research in Quality of Life* .....8

THE INTERNATIONAL SOCIETY FOR QUALITY-OF-LIFE STUDIES: Headquarters and WWW Homepage .....9

SINET World Wide Web Homepage ....12

*Editor’s Note:* : This issue features an essay by Ronald Anderson on how social indicators/ quality-of-life research can benefit from a more careful focus on human suffering. This is followed by a report on the recent ISQOLS Conference in Berlin, Germany and message from ISQOLS President Rhonda Phillips, a

Ronald E. Anderson is Professor Emeritus of sociology at the University of Minnesota, Minneapolis. He has been a member of RC55 of the International Sociological Association for two decades. Portions of this report were presented at the September 2014 meetings of the International Society for the Quality of Life Studies in Berlin. Similar material will appear in Chap. 1 of the forthcoming book: Anderson, R. E. (Ed.) (2015). *World Suffering and the Quality of Life*, NYC: Springer.

# SINET

Social Indicators Network News

## EDITOR EMERITUS:

Abbott L. Ferriss,  
*Atlanta, GA*

## COORDINATING EDITOR/PUBLISHER:

Kenneth C. Land,  
*Duke University, Durham, NC*

## MANAGING EDITOR:

Rob Marks,  
*Duke University, Durham, NC*

## CORRESPONDING EDITORS:

### **Children, Youth and Education:**

Donald J. Hernandez  
*Bureau of the Census,  
Washington, DC*

### **Health and Aging:**

Linda K. George and  
Deborah T. Gold,  
*Duke University, Durham, NC*

### **General Social and Cultural Trends:**

James A. Davis,  
*National Opinion Research Center,  
Chicago, IL*

John P. Robinson,  
*University of Maryland,  
College Park, MD*

### **Marketing/Quality of Life Research:**

M. Joseph Sirgy,  
*Virginia Polytechnic Institute  
& State University*

### **Social Forecasting/Futurology**

Joseph Coates,  
*Coates and Jarratt, Inc.  
Washington, DC*

### **Subjective Well-Being and the Quality of Life:**

Ed Diener,  
*University of Illinois  
at Urbana-Champaign*

### **International Correspondents:**

#### **Asia and the Pacific:**

Mahar Mangahas, Philippines,  
*Social Weather Stations,  
Quezon City, The Philippines*

Dudley L. Poston  
*Texas A&M University,  
College Station, TX*

#### **Europe:**

Maria Ciechocinska,  
*University of Agriculture & Education,  
Zytni, Poland*

Lief Gouiedo  
*Stockholm, Sweden*

Wolfgang Glatzer  
*Frankfurt, Germany*

Zsolt Speder

ing QOL indicators that have a high degree of face validity. It may be that combining happiness with unhappiness, well-being with ill-being, and negative attributes with positive attributes, will produce indicators that not only are more comprehensive but that appeal more to social policy makers and policy advocates. Going in this direction will require incorporating suffering more fully into the assessments, and incorporating suffering will require a better understanding of suffering itself and how to measure it. It is to this end, that the research that follows seeks to progress.

## **Defining and delineating world suffering**

Despite each individual's unique suffering, it is possible to study suffering among not only individuals, but families, groups, communities, nations, and the world. Study after study, conducted in different communities and countries, reveals that, despite small cultural differences, the structure, patterns, and oftentimes meanings of suffering, ring true across all social contexts around the globe (Anderson 2014). I had expected that many of the most interesting findings would be comparative (across communities or countries), but this was not the case. Instead, the most intriguing results were based on the uniqueness of a study's methodology. Progress on social policies regarding suffering requires multiple methods: subjective and objective measurements; qualitative and quantitative data collection; formal and informal analytical approaches, in both research and policy.

Cassell (1991) defined suffering as severe distress that interfered with one's personhood. I elaborated on Cassell in defining suffering as distress resulting from threat, major loss, or damage to one's body and/or self-identity (Anderson 2014). Cassell distinguished not only the body and mind but also the conceptions that a person holds of time, causation, and most of all, meanings of life.

There are times, particularly in ethnographic studies, when one should focus on the meanings (principally for the sense of self) that suffering has, or does not have, for different individuals. But, for large-scale comparisons, it is important to focus upon the principal source of the suffering: physical, mental, interpersonal or social. Physical suffering is the subset of distress resulting from threat or damage to one's physical being, whereas mental suffering is distress perceived as originating in one's cognitive or affective self-identity (Anderson 2014). Physical suffering is equated with pain, even though it often co-occurs with mental suffering (Black 2005; Carr et al. 2005; Livingston 1998; Morris 2002; Wilson et al. 2009). Mental suffering includes cognitive suffering (thoughts that produce suffering) and affective or emotional suffering (Francis 2006). Mental suffering does not necessarily have an origin in painful sensory events, and is more elusive. Depression and anxiety, perhaps the most persistent varieties of mental suffering, when combined with other mental maladies such as grief, serious mental illness, and existential suffering, together form a major type of suffering labeled here as mental suffering.

Physical suffering, typified by chronic pain, usually depends upon neurological paths between a sensory organ and the brain as a communication system. However, recent neuroscience research discovered a number of ways that pain arises without following the simple neurological pathways (Borsook 2012).

The more extreme the suffering, the more likely the sufferer is to experience multiple types of suffering. In fact, it is not uncommon for sufferers to simultaneously feel all types of suffering: physical, mental, social, and interpersonal. Cicely Saunders (2006), the founder of the modern hospice movement, called this type of suffering, "total pain." To be specific, she defined total pain as the intersection of physical, mental, spiritual (existential), and social. Some people prefer to equate the word suffering to situations of "total pain"; I prefer to reserve the label total suffering for deep distress that intersects all the major types of suffering.

## **Interpersonal and Social Suffering**

The third major class of suffering, interpersonal suffering, constitutes another name for what many call "social pain." Common examples of interpersonal suffering would be social rejection, forced social isolation, and withdrawal of affection or interaction

*(Continued on next page.)*

privileges. It can also be defined as distress inflicted by a primary group: family, friends, or people with whom one might have had regular contact. Franks (2015) summarized the research in neuroscience on social pain (interpersonal suffering), including (1) the potential for highly traumatic brain responses to social isolation and rejection, and (2) the discovery that interpersonal suffering and physical suffering affect identical areas of the brain.

In contrast to interpersonal suffering, social suffering results from social institutions, especially from community or societal norms that encourage discrimination or harm against members of social groups toward which stigma has been directed, e.g., minority belief groups, disability or racial groups. These negative effects are legitimized and maintained by powerful organizational institutions like governments and religions.

In the past two decades, the label 'social suffering' has come to mean suffering produced primarily by social conditions that damage a collective's sense of self-worth and heightens powerlessness produced from socially shared traumas (Kleinman, Das, & Lock 1997; Wilkinson 2005). One frequent consequence of social suffering is the loss of caring for self and others as valued human beings. Good examples of social suffering are victims of social discrimination, disability, poverty, and others treated as second-class citizens. Social institutions typically maintain the status quo that perpetuates the stigma and the socially shared suffering (Bourdieu et al. 2000).

Social suffering as a concept concerns more than trauma produced by social forces. Those who continue to write about social suffering seek to convey that those who experience social suffering, and in some instances, those who perpetuate it, come to understand the interconnectedness of all involved. Such illumination of the full reality of the imposition on those persecuted presumably leads to awareness of the moral-immoral aspects of the social relations in play. Another way of thinking about social suffering is that it exposes the role of the larger community and society in maintaining unequal social trauma ranging from a structure of violence to subtle disparaging of others (Wilkinson 2012, 2013).

**Table 1.** A proposed typology of global suffering, prevalences with operational definitions\*

Types of suffering	Prevalence in USA 2010**	Operational Definitions
1.0 Physical (aka chronic pain)	19%	In past 3 months, had pain most or all days
1.0.1 Extreme pain	3%	Chronic pain feeling excruciating & unbearable
2.0 Mental/Affective (any)	14%	Having 1 or more of 4 types below
2.1. Depression	9%	Feeling depressed daily or weekly
2.0.1 Extreme pain	4%	Depression that makes one stay in bed
2.2 Anxiety	8%	Worried or anxious every day
1.0.1 Extreme anxiety	4%	Anxiety that sometimes makes it hard to breath
2.3 Existential suffering	5%	Feeling hopeless and purposeless
2.4 Grief	3%	Immobilizing loss, sorrow or heartbreak
2.5 Major mental illness	-	(Not yet defined)
3.0 Interpersonal suffering	-	E.g., unexpected divorce, victim of bullying
4.0 Social suffering	14%	E.g., poverty, or disability-based indignity
5.0 Total suffering	3%	Co-occurrence of pain, mental & social suffering

\* An earlier typology with data was published in Anderson (2014) using data from 2010 Integrated or National Health Interview Study in the United States in 2010, which is distributed by the Minnesota Population Center (<https://www.pop.umn.edu/>) N=6,011. The earlier typology also will appear in chapter 1 of Anderson (2015).

\*\* Prevalences overlap categories, thus they cannot be summed to 100%. Prevalence of any type of suffering in the study was estimated as 58%, however this represented only 36% of respondents. See Figure 1.

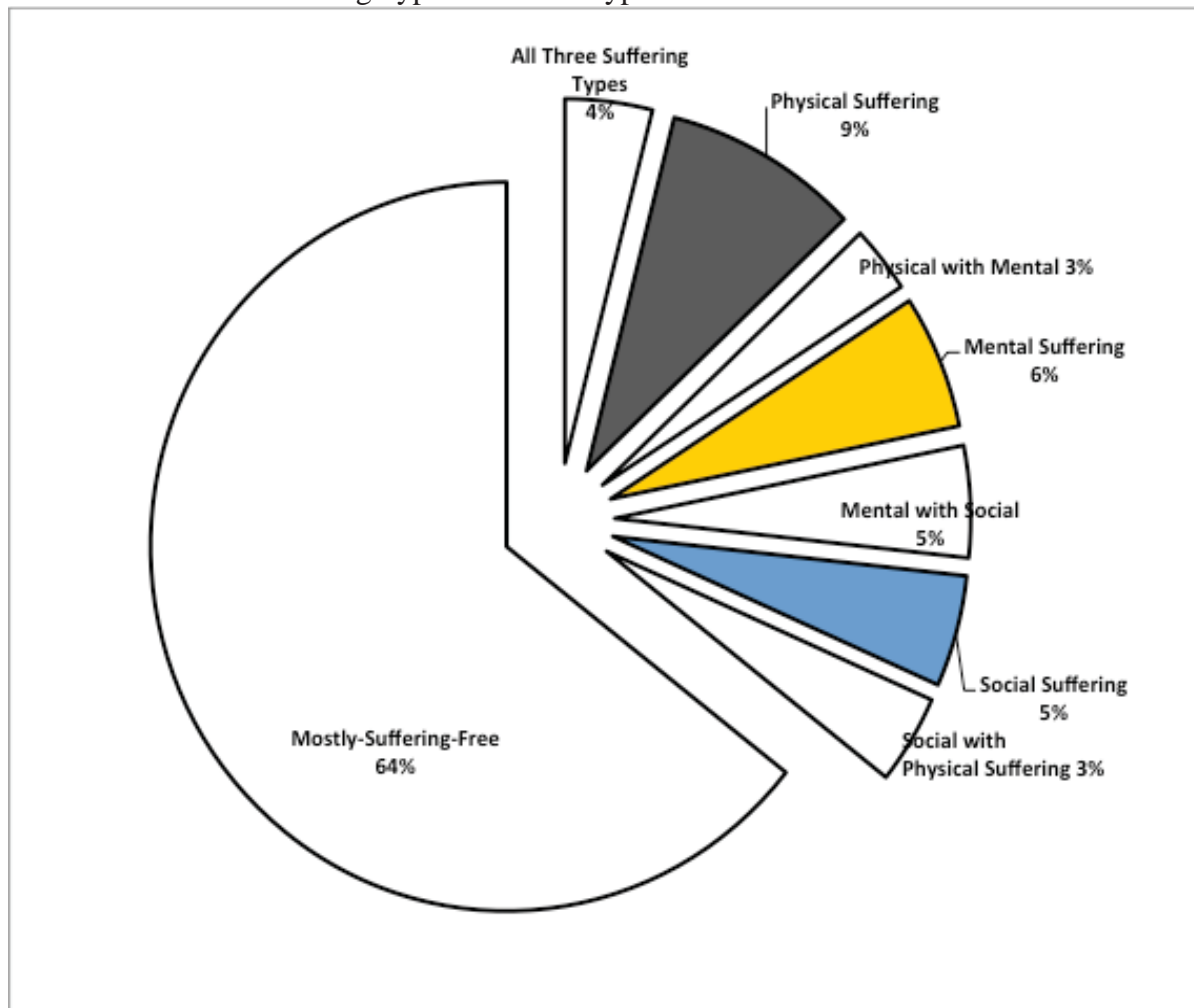
### Findings on Suffering in America

Not surprisingly, those who think about the concepts of pain or suffering, or work with those trying to manage their pain or suffering, lack a common vocabulary (Thernstrom 2010). This greatly constrains discourse on the subject and blocks the emergence of theory and research, and curtails the building of a global knowledge base. A typology of suffering from the perspective of both the social sciences and public health and development could facilitate communication as well as empirical research on suffering. My general-purpose taxonomy of suffering, detailed in the previous section, addresses research as well as practice needs. To illustrate, statistics from a large, national health survey, reported in the second column of Table 1, provides a portrait of suffering in America in 2010.

One of the most important findings from the suffering prevalence analysis of the American health study was that the most common type of suffering found was the co-occurrence of two or three types rather than one type (physical, mental, or social) alone. Figure 1 shows that among adults in the USA in 2010 about a third (36%) self-reported that they had recently had one or more types of suffering. Nearly half of these respondents had two or more types of suffering concurrently. Differences in suffering prevalence across social groups were generally substantial. For example, the prevalence of physical suffering steeply rose by age group. However, of all the different types of suffering, the only type of suffering that dramatically increased with age was physical. Those 60 or older were three times more likely than adults in their 20s to report significant physical pain (Anderson 2014).

(Continued on next page.)

Figure 1. Prevalence of Suffering Types and Joint Types for US Adults in 2010\*



\* An earlier typology chart with this data was published in Anderson (2014) using data from 2010 Integrated or National Health Interview Study in the United States in 2010, which is distributed by the Minnesota Population Center (<https://www.pop.umn.edu/>) N=6,011.

(Continued from previous page.)

Suffering disparities by income groups proved pronounced and large. Both physical pain and mental suffering were found to be highly related to lower income in the USA (see Figure 2). Those with income below the poverty line were twice as likely to have chronic pain or mental distress than those earning \$75K or more. Furthermore, those in poverty were three to five times more likely to have extreme pain or extreme mental distress than those earning \$75K or above. Those with middle income levels were in between the two income extremes in likelihood of suffering.

### Global Trauma and Suffering

Global violence may have declined over the past 3,000 years on a per capita basis, but it is doubtful that the absolute number of people killed each year has declined because the population has been rising so rapidly, particularly in agrarian societies. The global population tripled in the twentieth century alone. At some point between the distant past and the twentieth century, typical but cruel punishments came to be called atrocities. Furthermore, as record-keeping systems improved, the volume of deaths, injuries, diseases, and displacements could be estimated with increasing precision. Based upon UN and World Health Organization (WHO) statistics, Table 2 provides estimates of unnatural deaths and other events producing traumatic world suffering in 2010.

These statistical estimates contain error and only approximate the number of people actually suffering for a considerable amount of time during the year. The table shows that at least 44% of the global population (one in five persons) had a major suffering event such as those listed in Table 2 during the year 2010. This numeric picture of suffering significantly underestimates the total suffering in certain ways: e.g., deaths from infectious diseases other than HIV did not get included because many countries do not count them separately from other deaths.

In the past 25 years, the population of the developed world sector rose 0.6% per year, while the 40 least-developed countries increased in size by 2.5% per year. These demographic statistics were derived from the World Health Organization's online data files, accessed 25 June 2014. Meanwhile, the life expectancy in the top 40 countries increased to 22 years longer than those living

(Continued on next page.)

in the 40 least-developed countries (80 versus 58 years life expectancy at birth). Therefore, rising global inequality leads to greater worldwide suffering except in so far as greater longevity may increase total suffering.

Normally, longevity is seen as a sign of good health, but in fact those who live to a very old age tend to report a much higher prevalence of reoccurring illness, such as stroke. Thus, some affluent individuals may suffer more in general than the poor who do not live so long. Furthermore, those who live in societies with high life expectancies also tend to suffer from “af-fluenzas” (Graaf, Wann, & Naylor 2014) – ailments such as obesity, diabetes, and depression with associated suicide risk.

The estimates of suffering in Table 2 do not include any direct estimates of social suffering. Instances of severe racial discrimination, constant bullying, slavery, severe poverty, and disabilities have not been included. Including such prevalences might double the number of sufferers.

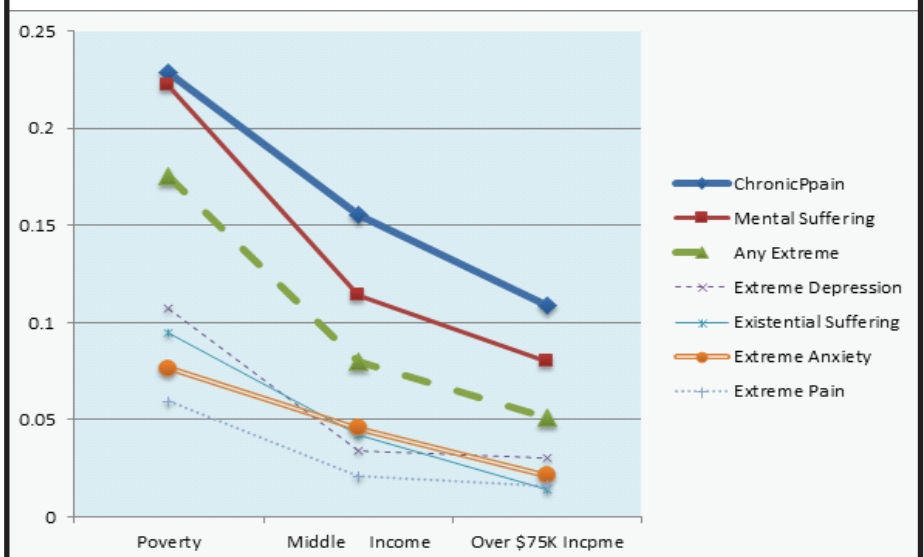
Comparing Subjective and Objective Measures of Suffering by Nation

A measure of subjective suffering for each nation was constructed from the Gallup World Poll data. Specifically, the subjective ‘life satisfaction’ measure (also called ‘life evaluation’) uses the Cantril Self-Anchoring Striving Scale refined by Gallup for its annual World Poll of 160 countries. An interviewer using the following instructions typically administers the question:

“Imagine a ladder with steps numbered from zero at the bottom to 10 at the top. The top of the ladder represents the best possible life for you and the bottom of the ladder represents the worst possible life for you. On which step of the ladder would you say you personally feel you stand at this time?” Now show a visual of a ladder.”

I produced the ‘subjective suffering’ indicator used here from the formula: 11 – X, where X is a national average of life satisfaction from the Gallup polls. This reverses the codes so that larger values represent either lower satisfaction or greater suffering. As the lower bound is defined to respondents as “least possible satisfaction,” it creates the illusion but not the reality of a zero point. The construct remains bipolar because dissatisfaction implicitly resides in judgments about satisfaction levels.

Figure 2. Prevalence of Types of Suffering by Three Income Groups in USA, 2010\*



\*Source: Integrated Health Interview Study in the United States, which is distributed by the Minnesota Population Center (<https://www.pop.umn.edu/>) N=6,011.

Table 2. Global Traumatic Suffering Estimates, 2010\*

	Estimates
Unintended starvation (energy-deprived diets)	766,229,726
Non-lethal assaults (officially reported)	380,746,682
Natural disasters (deaths & displacements)+	257,272,601
HIV/AIDS prevalence	33,446,568
Suicides and attempted suicides++	20,000,000
Needless deaths from non-infectious diseases#	14,281,370
Pollution-related deaths	5,030,203
Homicides	302,093
Civil war deaths	103,437
Poverty (UNDP’s multidimensional poverty)	1,587,702,000
<b>Grand Total (44% of world population)</b>	<b>3,065,114,680</b>

\*Source: United Nations Development Program (2010) Human Development Report  
 +Displacements were those relocated due to lost housing.  
 ++WHO suicide database  
 #This death count was calculated from HDR (2010) data by comparing the top 40 (HDI) nations with the remaining 130 less developed nations.

A more objective measure of suffering was constructed from estimates of social trauma listed in Table 2. To evaluate the predictive validity of each type of calamity that might help compose a total measure of objective suffering, each calamity type was modeled by regressing subjective suffering on them. One of the challenges of obtaining estimates of objective suffering is that they naturally overlap. For instance, many of those persons who suffer malnutrition also live in poverty. In this analysis, I addressed the overlap problem by generating statistical estimates of overlaps between pairs of variables and adjusting the joint prevalences for each pair. The grand total of estimated world suffering is about three billion people, or 44% of the world population in 2010, when poverty is included.

The four calamity types in Table 2 (hunger, poverty, child deaths, and HIV prevalence), which were the most predictive of the subjective suffering measure, were used as the additive components of a composite indicator of objective suffering. The scatterplot of

(Continued on next page.)

(Continued from previous page.)

that objective measure with the subjective (negative satisfaction based) indicator is displayed in Figure 3. While the scatterplot reveals considerable linearity between the two variables, to some extent this was to be expected given that the four components of objective suffering were selected on their predictive stamina. The four weighted calamity variables explain 58% of the variance in the subjective suffering indicator, which means that 42% was unexplained. The linear relationship between the four weighted composite calamity predictors (X-axis) of this model and subjective suffering (Y-axis), while not validating either indicator of suffering, suggests that further research along these lines will contribute toward the refinement of suffering indicators and ultimately toward comparative understanding of suffering.

### Using Estimates of Human Rights Violations to Measure Suffering

The human rights perspective gained momentum from growing popularity of beliefs that humane values applied universally. A key component of this movement has been that extreme but preventable suffering should be eradicated. This has been the driving force behind the trends of eliminate slavery and torture. While traditional human rights focused on political and civil rights, a large sector of the movement has adopted an agenda that defines social and cultural rights including

the rights to shelter and adequate nutrition. Because of this close alignment of suffering avoidance and human rights, it might be possible to measure levels of suffering by estimating the extent to which human rights are violated.

The Fund for Peace already compiles data annually on indicators of human rights violations for 178 countries and releases this information as the Fragile State Index (Fund for Peace 2011, 2014). Formerly called the “Failed States Index,” this index combines thousands of reports daily on each of 178 countries, using a combination of automated and manual syntheses of the information on human rights policies and practices in each country. The Fund for Peace also provides sub-index estimates and one of these sub-indexes captures political/civil rights; another measures social/human rights. The two were added together for the analysis below.

Figure 4 shows the scatterplots for 122 countries, which we had both the subjective suffering data and the human rights data. This inter-relationship depicts a moderately high degree of correlation. The correlation depicted in Figure 4 is 0.8, although if you take away either the political or the social sub-indices, the degree of correlation declines to 0.6. The co-variation between suffering and a rough measure of political and social human rights violations constitutes a sign that further work on using human rights

violations as indicators of suffering has a strong likelihood of yielding greater understanding of major elements of global suffering. In addition, it might even lead to a more robust and reliable indicator of “objective” suffering.

Further refinements are needed to develop better national and community indicators of both subjective and objective suffering. Using indicators of human rights violations has considerable promise for either predicting suffering or at least representing the miserable conditions of suffering. These indicators offer the potential for greater objectivity, validity, and precision.

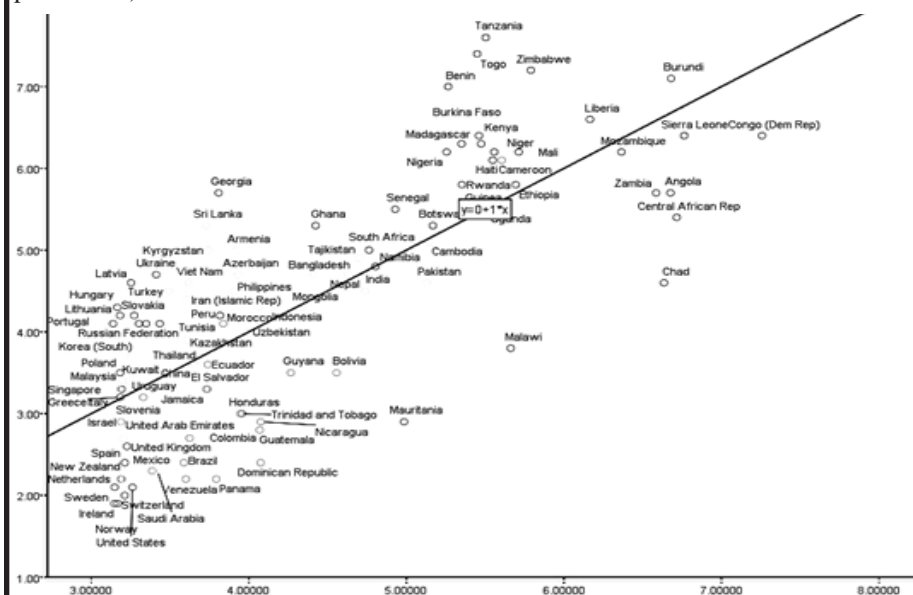
### Conclusion

Progress in social measurement tends to be slow because it requires an understanding of measurement theory, subject matter expertise, experience in conducting research that leads to progress in measurement, skill in data analysis, ability to communicate results, and in some cases, sheer luck. Certainly, this is true of the measurement of quality of life and suffering. The work reported here might be characterized as “a running start,” as it offers a typology of suffering grounded in both conceptual and colloquial considerations. But mostly, several prototype measures of suffering have been applied with relevant data. The hope is that others will also take up the challenge of pioneering reliable and valid measures of human suffering and related concepts that will enhance quality of life research. While much work needs to be done on the measurement of suffering alone, eventually it may be possible to combine suffering and other negative attributes of quality of life with indicators of positive attributes of life’s quality.

### References

- Alexandrova, A. (2005). Subjective Well-Being and Kahneman’s Objective Happiness. *Journal of Happiness Studies*. 6:301–324. DOI 10.1007/s10902-005-7694-x
- Anderson, R. E. (2014). *Human Suffering and Quality of Life -Conceptualizing Stories and Statistics*. New York: Springer.
- Anderson, R. E. (2015). Introduction to thought and research on world suffering. In R. E. Anderson (Ed.), *World Suffering and the quality of life*. NY: Springer.
- Black, H.K. (2005). *Soul pain: The meaning of suffering in later life*. Amityville, NY: Baywood Publishing Co. Inc.

**Figure 3.** Scatterplot of Subjective Suffering on the vertical Y-axis predicted by the objective suffering composite of four factors (hunger, poverty, child deaths, and HIV prevalence) distributed on the horizontal X-axis



Source: All data were obtained from the United Nations Development Program (2010) Human Development Report

Borsook, D. (2012). A Future without Chronic Pain: Neuroscience and Clinical Research. <http://www.dana.org/news/cerebrum/detail.aspx?id=39160> Accessed 8 March 2013.

Bourdieu, P. et al. (2000). Understanding. In P. Bourdieu et al. (Eds.), *The weight of the world: Social suffering in contemporary society*. Stanford, CA: Stanford University Press.

Carr, D. B., Loeser, J. D., & Morris, D. B. (Eds.), (2005). *Narrative, pain and suffering* (Progress in pain research and management). Seattle, WA: International Association for the Study of Pain Press.

Cassell, E. J. (1991). *Nature of suffering and the goals of medicine*. New York: Oxford University Press.

Graaf, J. Wann, D. & Naylor, T. H. (2001). *Affluenza – How Overconsumption is Killing Us and How to Fight Back*, First Edition, NYC: Berrett-Koehler Publishers.

Franks, D. (2015). The Neurosociology of social rejection and suffering. In R. E. Anderson (Ed.), *World Suffering and the quality of life*. (Chapter 27), NY: Springer.

Fund for Peace (2011). *The Fragile States Index 2010*. Washington DC: Fund for Peace (FP). Accessed on 5 June 2014 at <http://ffp.statesindex.org/>

Fund for Peace (2014). *Conflict Assessment Framework Manual*. Washington DC: Fund for Peace (FP). Accessed on 5 June 2014 at <http://ffp.statesindex.org/>

Kleinman, A., Das, V., & Lock, M. (Eds.) (1997). *Social suffering*. Berkeley: University of California Press.

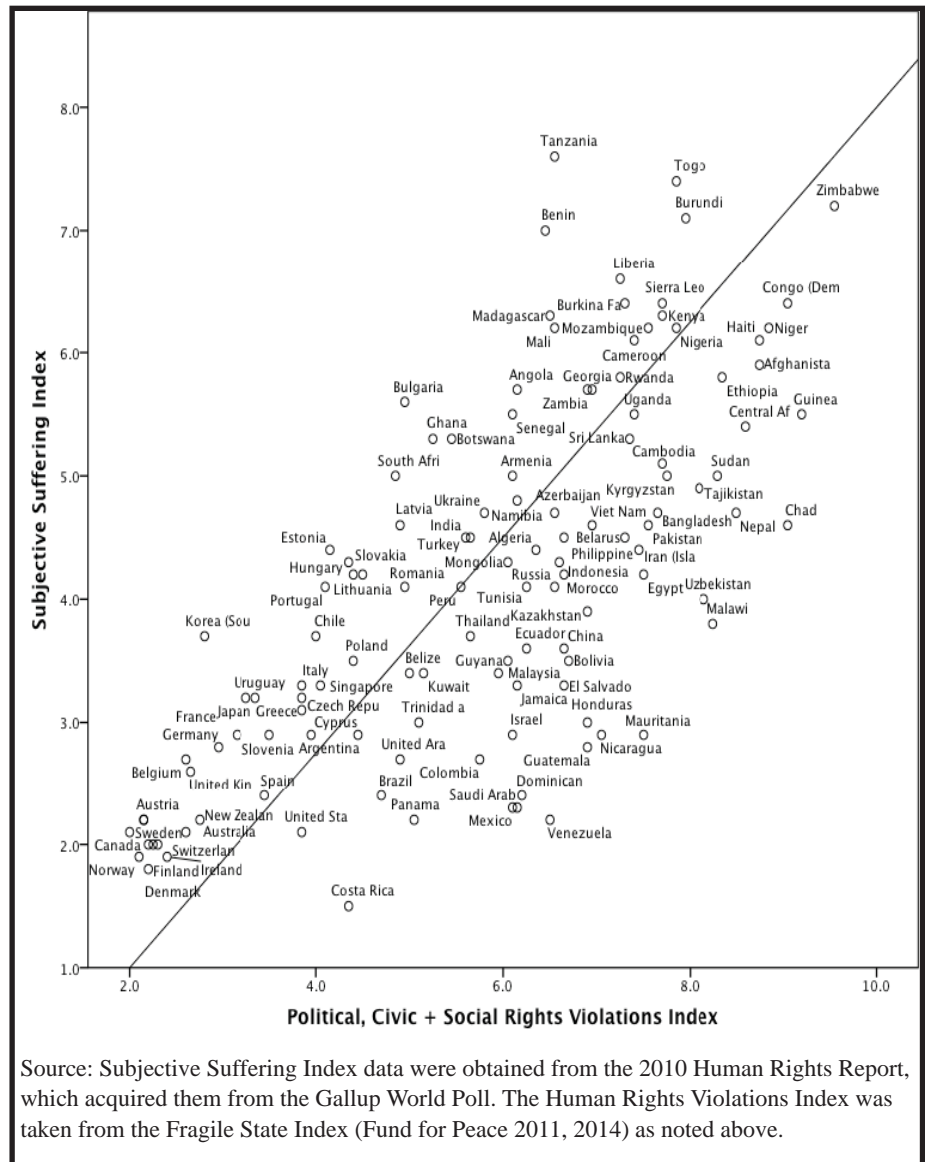
Krueger, A. B., Kahneman, D., Schkade, D., Schwarz, N., Krueger, A. A. (2009). National Time Accounting: The Currency of Life Measuring the Subjective Well-Being of Nations. Pp. 9-86 in A. B. Krueger (Ed.) *National Accounts of Time Use and Well-Being* (National Bureau of Economic Research Conference Report). Chicago, IL: Univ. Of Chicago Press.

Francis, L.E. (2006). Emotions and health. In W.E. Stets & J.H. Turner (Eds.), *Handbook of the sociology of emotions* (pp. 591–610). New York: Springer.

Lelkes, O. (2013). “Minimizing Misery: A New Strategy for Public Policies Instead of Maximizing Happiness?” *Social Indicators Research*, 114, 121-137.

Livingston, W.K. (1998). *Pain and suffer-*

**Figure 4.** Subjective Suffering as a Function of Political and Social Human Rights Violations



Source: Subjective Suffering Index data were obtained from the 2010 Human Rights Report, which acquired them from the Gallup World Poll. The Human Rights Violations Index was taken from the Fragile State Index (Fund for Peace 2011, 2014) as noted above.

ing, Seattle, WA: International Association for the Study of Pain Press.

Morris, D. B. (2002). *The culture of pain*. Berkeley: University of California Press.

OECD (2013), *OECD Guidelines on Measuring Subjective Well-being*, OECD Publishing. <http://dx.doi.org/10.1787/9789264191655-en>

Saunders, C. (2006). *Cicely Saunders: Selected Writings 1958-2004*. New York City: Oxford University Press USA.

UNDP (2010). *Human Development Report 2010*. New York, NY: Palgrave Macmillan for the United Nations Development Program

White, M. (2011). *Atrocities: The 100 Deadliest Episodes in Human History*. NY: W. W. Norton & Co.

Wilkinson, I. (2005). *Suffering: A so-*

ciological introduction. Cambridge, UK: Polity Press.

Wilkinson, I. (2012). *Social suffering and the problem of re-making sociology for caregiving*. [http://www.academia.edu/1812508/Social\\_Suffering\\_and\\_the\\_Problem\\_of\\_Re-making\\_Sociology\\_for\\_Caregiving](http://www.academia.edu/1812508/Social_Suffering_and_the_Problem_of_Re-making_Sociology_for_Caregiving). Accessed 27 January 2013. (Published online at Academia.edu)

Wilson, R.A. & Brown, R.D. (Eds.) (2009). *Humanitarianism and suffering—The mobilization of empathy*. New York: Cambridge University Press.

## MESSAGE FROM ISQOLS EXECUTIVE DIRECTOR

Dear members of ISQOLS

We can't quite believe it, but the holiday season is near and 2014 is almost over. It surely was a great year for the International Society for Quality-of-Life Studies (ISQOLS). We gained many new members from all over the world and want to use the opportunity to extend a warm welcome to them! All of those present will also fondly remember our sunny and inspiring ISQOLS gathering in September at the 12th Quality of Life Conference in Berlin.

Mark your calendars because the planning for the 2015 conference is already well underway. The 13th ISQOLS Conference will take place on October 15-17th 2015 in Phoenix, Arizona, USA. Make sure you visit our website ([www.isqols.org](http://www.isqols.org)) or Facebook page ([facebook.com/isqols](https://www.facebook.com/isqols)) for updates in the next few months.

At this time of year we also want to remind you to renew your ISQOLS membership. To renew your membership online now, please click on the following link: <http://www.isqols.org/membership/membership-registration>.

Of course you can renew your membership anytime by visiting the Membership section of our website. As an active ISQOLS member you enjoy a range of benefits: membership access to our website [www.isqols.org](http://www.isqols.org) including an interactive member directory for networking and the news blog for posting your QOL content; a significant discount on the conference fee for the 13th ISQOLS Conference in Phoenix, Arizona in 2015; essential quality-of-life publications such as Applied Research in Quality of Life (ARQOL) and the Social Indicators Network News (SINET), discounts on quality-of-life literature, expanded research support, and access to a growing network of researchers worldwide.

We are sure 2015 will also be a successful year for our growing community. We want to thank all of you for your ongoing dedication and support for the ISQOLS cause!

Enjoy the holidays and have a happy new year!

Best Wishes,

Denis Huschka

Executive Director  
International Society for Quality of Life Studies ISQOLS  
1800 Kraft Drive, Suite 111  
Blacksburg, VA 24061-6370  
USA  
Postal Address:  
ISQOLS c/o GWI Berlin  
Mohrenstrasse 58  
10117 Berlin  
GERMANY  
Telephone Numbers:  
030 78085615  
0152 54590402

## CALL FOR PAPERS

### APPLIED RESEARCH IN QUALITY OF LIFE

### THE OFFICIAL JOURNAL OF THE INTERNATIONAL SOCIETY

### FOR QUALITY-OF-LIFE STUDIES

Applied Research in Quality of Life (ARQOL) presents conceptual, methodological and empirical papers dealing with quality-of-life studies in the applied areas of the natural and social sciences. It aims to publish papers that have direct implications for, or impact on practical applications of research on the quality of life. The articles are crafted from interdisciplinary, inter-professional and international perspectives. ARQOL guides decision making in a variety of professions, industries, nonprofit, and government sectors, including healthcare, travel and tourism, marketing, corporate management, community planning, social work, public administration, and human resource management. It helps decision makers apply performance measures and outcome assessment techniques based on such concepts as well-being, human satisfaction, human development, happiness, wellness and quality-of-life. ARQOL is the official journal of the International Society for Quality-of-Life Studies (ISQOLS). [www.isqols.org](http://www.isqols.org)

Daniel Shek is the Editor-in-Chief of ARQOL, who is assisted by Editors A. C. Michalos and J. Sirgy. Authors interested in submitting manuscripts for publication should consult the Website <http://www.editorialmanager.com/ariq/>. Further information may be obtained by contacting one of the journal's Editors: Daniel Shek, The Hong Kong Polytechnic University (HK), [daniel.shek@polyu.edu.hk](mailto:daniel.shek@polyu.edu.hk); Alex C. Michalos, Emeritus, University of Northern British Columbia (Canada), [Michalos@BrandonU.CA](mailto:Michalos@BrandonU.CA); M. Joseph Sirgy, Virginia Polytechnic Institute & State University (USA), [sirgy@vt.edu](mailto:sirgy@vt.edu).



## **MESSAGE FROM ISQOLS PRESIDENT**

Greetings! We have great news for our end of year ISQOLS report. Our 12th Quality of Life Conference was held at the Freie University in Berlin, Germany September 15 – 18. The conference theme, “Sustaining Quality of Life Across the Globe,” drew attention, and over 60 sessions were held with over 200 presenters. Our three named lectures were well received, along with keynote and special sessions. All in all, a great success! We owe our Local Organizing Committee a tremendous “thank you,” along with the Program Committee. Peter Krause, Jessica Ordemann, Petra Bohnke, Jan Delhey, Michael Eid, Denis Huschka, Ronnie Schob, and Jurgen Schupp – we are grateful for all the efforts you extended to make the 12th Quality of Life Conference a rousing success!

At the conference, the Board of Directors and Executive Committee decided upon a yearly conference cycle to build further presence and provide opportunity for us to convene with our colleagues, both existing and new to ISQOLS, across the globe. Our next conference, the 13th ISQOLS Quality of Life Conference will be held in Phoenix, Arizona, US, October 15 – 17, 2015. Mark your calendars now and we’ll be in touch soon with more details. Further, we are striving to identify a three-year cycle of conferences so plans can be made well in advance, bringing the most innovative, cutting-edge research to our conferences. Our intention is to rotate through regions so that we can have presence in not only Europe but also North/South America and Asia.

Let us also thank our 2013-2014 Board of Directors and Executive Committee listed below. We appreciate your service and your participation – as an academic society, we rely on your willingness to serve and help push the forefront of knowledge and application in quality of life research for the betterment of all.

And finally, I want to extend a warm welcome to our incoming Board of Directors and Executive Committee for the term, January 1, 2015 – December 31, 2016 (see the complete list of members nearby). Our strength is in our diversity across disciplines, cultures and perspectives. Together, let’s make this next year the best yet for ISQOLS.

Rhonda Phillips  
President, ISQOLS  
Purdue University, US

## **THE INTERNATIONAL SOCIETY FOR QUALITY-OF- LIFE STUDIES: HEADQUARTERS AND WWW HOMEPAGE**

The International Society for Quality-of-Life Studies (ISQOLS) was formed in the mid-1990s. The objectives of ISQOLS are: 1) to stimulate interdisciplinary research in quality-of-life (QOL) studies within the managerial (policy), behavioral, social, medical, and environmental sciences; 2) to provide an organization which all academic, business, nonprofit, and government researchers who are interested in QOL studies can coordinate their efforts to advance the knowledge base and to create positive social change; and 3) to encourage closer cooperation among scholars engaged in QOL research to develop better theory, methods, measures, and intervention programs.

Denis Huschka is the Executive Director and Treasurer for ISQOLS from Joe Sirgy, and the ISQOLS Central Office has moved from Blacksburg, Virginia, USA to Berlin, Germany. Denis’s contact information: Denis Huschka, Executive Director, ISQOLS, Mohrenstrasse 58 10117 Berlin, Germany; Fax: +49-(0)3089789-263 E-Mail: ed@isqols.org. Denis has worked hard to update and make interactive the ISQOLS website: [www.isqols.org](http://www.isqols.org). In particular, membership dues can be paid directly on the updated website. Anyone interested in knowing more about ISQOLS should contact Denis.

**ISQOLS EXECUTIVE COMMITTEE****AND****BOARD OF DIRECTORS****ISQOLS Executive Committee 2015-2016**

<b>Function</b>	<b>Name</b>	<b>Affiliation</b>
President	Rhonda Phillips	Purdue University
President Elect	Mariano Rojas	FLACSO UPAEP
Past Presidents	Filomena Maggino	University of Florence
Past Presidents	Robert Cummins	Deakin University
Past Presidents	Valerie Moller	Rhodes University
Past Presidents	Wolfgang Glatzer	University of Frankfurt
Past President & Co-Vice President Development	Richard J. Estes	University of Pennsylvania
Executive Director	Denis Huschka	Science Policy and Infrastructure Development
Vice President of Publications	Don Rahtz	Raymond A. Mason School of Business
Vice President of Professional Affairs	Ferran Casas	University of Girona
Co-Vice President of Publicity/Membership	Jose de Jesus Garcia Vega	University of Monterrey
Co-Vice President of Publicity/Membership	Ming-Chang Tsai	National Taipei University
Vice President of Programs	Peter Krause	German Institut for Economic Research
Vice President of Academic Affairs	Giampaolo Nuvolati	University of Milan
Vice President of Finance	Andrew Clark	Paris School of Economics
Vice President of External Affairs	Graciela Tonon	University of Palermo
Co-Vice President Development	M. Joseph Sirgy	Virginia Polytechnic Institute and State University

**ISQOLS Executive Committee 2013-2014**

<b>Function</b>	<b>Name</b>	<b>Affiliation</b>
President	Rhonda Phillips	Purdue University
Past Presidents:	Filomena Maggino	University of Florence
	Robert Cummins	Deakin University
	Valerie Moller	Rhodes University
	Wolfgang Glatzer	University of Frankfurt
Past President & Co-Vice President Development	Richard J. Estes	University of Pennsylvania
Executive Director	Denis Huschka	Science Policy and Infrastructure Development
Vice President Publications	Laura Camfield	University of East Anglia
Vice President of Professional Affairs	Ferran Casas	University of Girona
Co-Vice President of Publicity/Membership	Jose de Jesus Garcia Vega	University of Monterrey
Co-Vice President of Publicity/Membership	Ming-Chang Tsai	National Taipei University
Vice President of Programs	Peter Krause	German Institut for Economic Research
Vice President of Academic Affairs	Giampaolo Nuvolati	University of Milan
President Elect	Mariano Rojas	FLACSO UPAEP
Vice President of External Affairs	Graciela Tonon	University of Palermo
Co-Vice President Development	M. Joseph Sirgy	Virginia Polytechnic Institute and State University

**ISQOLS Board of Directors 2015-2016**

Name	Affiliation
Ronald Anderson	University of Minnesota
Jeroen Boelhouwer	Netherlands Institute for Social Research
Ferran Casas	University of Girona
Andrew Clark	Paris School of Economics
Jan Delhey	Jacobs University Bremen
Michael Frisch	Baylor University
Jose de Jesus Garcia	University of Monterrey
Richard Gilman	Cincinnati Children's Hospital Medical Center
Carol Graham	Brookings Institution
Denis Huschka	Science Policy and Infrastructure Development
Todd Kashdan	George Mason University
Peter Krause	German Institute for Economic Research
Anna Lau	Deakin University
Mahar Mangahas	Social Weather Stations
Giampaolo Nuvolati	University of Milan
Mark Peterson	University of Wyoming
Don Rahtz	Raymond A. Mason School of Business
Lía Rodríguez de la Vega	National University La Matanza
Mariano Rojas	FLACSO UPAEP
Fermina Rojo	Center for Humanities and Social Sciences
A. Coskun Samli	University of North Florida
Peggy Schyns	Netherlands Institute for Social Research
M. Joseph Sirgy	Virginia Polytechnic Institute and State University
Christian Suter	University of Neuchâtel
Graciela Tonon	University of Palermo
Ming-Chang Tsai	National Taipei University
Ruut Veenhoven	Erasmus University Rotterdam
David Webb	University of Western Australia
Eduardo Wills Herrera	University of Andes

**ISQOLS Board of Directors 2013 2014**

Name	Affiliation
Andrew Clark	Paris School of Economics
Christian Suter	University of Neuchâtel
Denis Huschka	Science Policy and Infrastructure Development
Don Rahtz	Raymond A. Mason School of Business
David Webb	University of Western Australia
Eduardo Wills Herrera	University of Andes
Fermina Rojo	Center for Humanities and Social Sciences
Ferran Casas	University of Girona
Giampaolo Nuvolati	University of Milan
Graciela Tonon	University of Palermo
Jeroen Boelhouwer	Netherlands Institute for Social Research
Jan Delhey	Jacobs University Bremen
Jose de Jesus Garcia Vega	University of Monterrey
A. Coskun Samli	University of North Florida
Lía Rodríguez de la Vega	National University La Matanza
Mahar Mangahas	Social Weather Stations
Mariano Rojas	FLACSO UPAEP
Mark Peterson	University of Wyoming
Michael B. Frisch	Baylor University
Ming-Chang Tsai	National Taipei University
Anna Lau	Deakin University
Peggy Schyns	Netherlands Institute for Social Research
Peter Krause	German Institute for Economic Research
Richard Gilman	Cincinnati Children's Hospital Medical Center
M. Joseph Sirgy	Virginia Polytechnic Institute and State University
Todd Kashdan	George Mason University
Ruut Veenhoven	Erasmus University Rotterdam

