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Certificate of Conformity

I, Peter Coleman Fletcher of Cambridge, England, Notary Public duly authorised admitted and sworn, and practising within the United Kingdom and Northern Ireland do hereby certify and affirm under penalty of perjury that I witnessed the signature of Professor William C. McGrew as applied to the Affidavit attached to this Certificate, which was signed and dated on 21st November 2013.

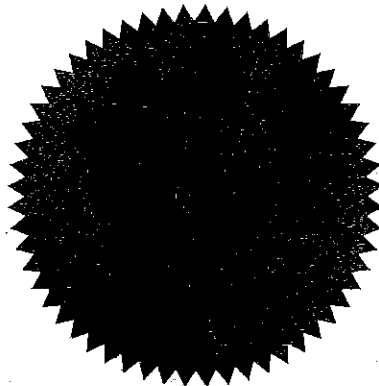
I confirm that the manner in which the Certificate was signed was, and is, in accordance with, and conforms to, the Laws for taking oaths and acknowledgements in England.





Peter Coleman Fletcher

Notary Public

21/11/13



<b>APOSTILLE</b> (Convention de La Haye du 5 octobre 1961)	
<b>1. Country:</b> Pays/Pais	United Kingdom of Great Britain and Northern Ireland
<b>This public document</b> Le présent acte public / El presente documento público	
<b>2. Has been signed by</b> a été signé par ha sido firmado por	Peter C Fletcher
<b>3. Acting in the capacity of</b> agissant en qualité de quien actúa en calidad de	Notary Public
<b>4. Bears the seal/stamp of</b> est revêtu du sceau / timbre de y está revestido del sello / timbre de	The Said Notary Public
<b>Certified</b> Attesté / Certificado	
<b>5. at</b> à / en	London
<b>6. the</b> le / el día	22 November 2013
<b>7. by</b> par / por	Her Majesty's Principal Secretary of State for Foreign and Commonwealth Affairs
<b>8. Number</b> sous no / bajo el número	J856267
<b>9. Seal / stamp:</b> Sceau / timbre: Sello / timbre:	
<b>10. Signature:</b> Signature: Firma:	O. Matti 

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STATE OF NEW YORK  
SUPREME COURT COUNTY OF FULTON

In the Matter of a Proceeding under Article 70 of  
the CPLR for a Writ of Habeas Corpus,

THE NONHUMAN RIGHTS PROJECT, INC.,  
on behalf of TOMMY,

Petitioners,

v.

PATRICK C. LAVERY, individually and as an  
officer of Circle L Trailer Sales, Inc., DIANE  
LAVERY, and CIRCLE L TRAILER SALES,  
INC.,

Respondents.

**AFFIDAVIT OF  
WILLIAM C. McGREW**

Index No.:

UNITED KINGDOM )  
COUNTRY OF ENGLAND ) ss:  
CITY OF Cambridge )

William C. McGrew being duly sworn, deposes and says:

**Introduction and Qualifications**

1. My name is William C. McGrew. I reside and work in Cambridge, England. I was awarded a D.Phil. in Psychology from the University of Oxford in 1970, a Ph.D. from in Social Anthropology from the University of Stirling (Scotland) in 1990, and a Ph.D in Biological Anthropology from the University of Cambridge in 2009.

2. I submit this affidavit in support of Petitioners The Nonhuman Rights Project, Inc. ("NhRP"), on behalf of Tommy, for a writ of habeas corpus. I am a non-party to this proceeding.

3. I am currently Emeritus Professor of Evolutionary Primatology in the Division of Biological Anthropology, Department of Archaeology and Anthropology, University of Cambridge. Since 1972 I have taught the following courses (in reverse chronological order): Cultural Primatology, Apes as Models for Human Evolution, Primate Socio-Ecology at the University of Cambridge; Behavioral Ecology and Conservation Biology, Human Evolutionary Ecology, Mammalogy, Origins of Human Material Culture, and Socio-Ecology of Primates at Miami University (Ohio), Socio-Ecology of Primates at Earlham College (Indiana), Animal Behaviour, Behavioral Primatology, and Developmental Psychology at University of Stirling.

4. I was elected a Fellow of the Royal Society of Edinburgh in 2003 and the American Association for the Advancement of Science in 2005. I am a recipient of the Howells Prize (American Anthropological Association), Prix Delwart (Royal Academy of Sciences, Belgium), and Osman Hill Medal (Primate Society of Great Britain). I have held visiting appointments at the University of California-Berkeley, University of New Mexico, University of North Carolina-Charlotte, Tulane University, as well as the Collegium Budapest (Hungary), College de France (Paris), and Hanse-Wissenschaftskolleg (Delmenhorst, Germany).

5. I have served on the IUCN-SSC Primate Specialist Group, Africa and Great Apes since 2004 and on the Scientific Board, International Primate Protection League since 1977. I served on the Board of Directors of Chimp Haven, Inc. from 1999-2005 and the Council and Executive Committee of the Royal Zoological Society of Scotland in 1975. I have served on the editorial boards of the following scientific journals: *American Journal of Primatology* (1991 - 1999), *Folia Primatologica* (1989 -2009), the *International Journal of Primatology* (1995 - 2000) and *Primates* (1985 - present).

6. My specialization is in the great apes, and especially the study of the behaviour and ecology of chimpanzees. I have done field research on chimpanzees and bonobos from 1972-2012, in six African countries. These studies have spanned the species' range from West Africa (Senegal and Guinea) to Central Africa (Gabon and Congo-Kinshasa) to East Africa (Tanzania and Uganda). I have collected data on wild chimpanzees at more research sites than any other scientist. I have done behavioural research on captive chimpanzees in laboratories, sanctuaries, wildlife parks, and zoological gardens.

7. I have written or co-edited 10 books, seven of which are relevant here, including: *Chimpanzee Material Culture* (1992, Cambridge University Press); *Topics in Primatology. Vol.1. Human Origins* (1992, University of Tokyo Press); *Chimpanzee Cultures* (1994, Harvard University Press); *Great Ape Societies* (1996, Cambridge University Press); *The Cultured Chimpanzee* (2004, Cambridge University Press), *Chimpanzee Behavior in the Wild* (2010, Springer); *The Evolution of Human Handedness* (2013, Wiley). Some have been translated into such languages as Italian, Japanese, and Slovenian.

8. I have published 162 articles and book chapters on the behaviour, ecology, welfare, or conservation of monkeys and apes, including 101 peer-reviewed articles in the world's most-cited scientific journals: *Nature*, *Science*, *Proceedings of the National Academy of Sciences USA*, *Proceedings of the Royal Society*, *Philosophical Transactions of the Royal Society*, *Evolutionary Anthropology*, *American Journal of Physical Anthropology*, *Animal Behaviour*, *Animal Cognition*, *Current Anthropology*, *Current Biology*, *Trends in Cognitive Science*, as well as more specialised academic periodicals, 44 chapters in edited book volumes, and the rest in the popular press. These publications have covered 15 species of non-human primates, from common marmoset to chimpanzee and gorilla. Specific topics of these publications include: culture, tool-use, diet, sexual

behaviour, sex differences, birth, predation, parasites, social organisation, ranging, kinship, parental behaviour, environmental enrichment, rehabilitation, food-sharing, mating systems, handedness, seasonality, genetics, bipedality, activity budgets, skeletal structure, psychopathology, vegetation ecology, archaeology, alcohol ingestion, and insectivory.

9. I regularly give invited lectures and take part in international symposia in primatology. Over the last 40 years, such speaking engagements have averaged about 4 per year. This does not count many more research talks given at universities or at regional, national or international conferences. These lectures and symposia have taken place in: Austria, Belgium, Canada, England, France, Germany, Guinea, Indonesia, Italy, Japan, Mexico, Portugal, Romania, Russia, Scotland, Singapore, South Africa, Spain, Switzerland, and USA. My Curriculum Vitae fully sets forth my educational background and experience and is annexed hereto as "Exhibit A".

#### **Basis for Opinions**

10. The opinions I state in this Affidavit are based on my professional knowledge, education, training, and 40 years of research and field work with chimpanzees, as well as my knowledge of peer-reviewed literature about primatology published in the world's most respected journals, periodicals and books that are generally accepted as authoritative in the field of primatology, many of which were written by myself and colleagues with whom I have worked for many years and with whose research and field work I am personally familiar. A full reference list of peer-reviewed literature cited herein is annexed hereto as "Exhibit B".

#### **Opinions**

11. The chimpanzee (and its sister species, the bonobo) is more closely related to human beings than it is to the other African ape, the gorilla. Of all living organisms, these apes are

the ones with whom we last shared a common ancestor. Thus, the chimpanzee is humankind's closest living relative, and vice versa (Goodman, 1999).

12. Chimpanzees resemble human beings in physiological and anatomical ways. Their blood is interchangeable with human blood, such that a transfusion from a human being could save a chimpanzee's life (or vice versa), so long as the blood groups are properly matched (Segurel et al., 2012).

13. The volume of the brain of the chimpanzee is of comparable size to that of the most recent (but extinct) member of the human evolutionary lineage, *Homo floresiensis* ('The Hobbit') of Indonesia, which lived until as recently as 18,000 years ago (Brown et al., 2004).

14. Chimpanzees' performance on *intelligence* tests is equivalent to that of preschool-aged (3&4 years-old) children, especially in physical intelligence, i.e. object manipulation (Matsuzawa et al., 2006).

15. One of the most important indicators of intelligence in species, including chimpanzees, is the capacity for tool-making and use. Tool-making may imply complex problem-solving skills and an understanding of means-ends relations and causation, as it requires making choices, often in a specific sequence, towards a predefined goal, which is a key aspect of intentional action. Chimpanzees demonstrate intelligent tool-making and use in both nature and captivity, many examples of which are described in the following paragraphs. In nature they make and use tools of vegetation and stone in daily life for hunting, gathering, fighting, play, communication, courtship, hygiene and socializing (McGrew, 1992; 2010, 2013). Tool-making and use is a chimpanzee species universal, found in all populations studied over the long-term.

16. Chimpanzees make and use complex tools that require them to utilize two or more objects towards a single goal. An example is using one stone as a hammer and another as an anvil

for cracking hard nuts (Carvalho et al., 2009). Chimpanzees also make compound tools, in which two or more components are combined as a single working unit. Examples include the leaf sponge in which several fresh leaves are compressed into a single absorbent mass that allows water to be extracted from tree holes (Sousa et al., 2009), and, the wedge stone, in which chimpanzees insert a stone under an anvil to level its working surface to increase its efficiency (Matsuzawa, 1991). Composite tool use such as this is virtually unknown in other nonhuman species and reflects the fact that chimpanzees have the mental capacity to combine components of their environment in appropriate ways to attain a desired outcome. These capacities also involve making adjustments to existing circumstances in order to attain a goal and demonstrating that chimpanzees desire certain outcomes over others and work to achieve them.

17. Chimpanzees also use “tool sets,” which involve using two or more tools in an obligate sequence to achieve a single goal. For example, they have been known to use a set of five objects – pounder, perforator, enlarger, collector, and swab – to obtain honey (Boesch et al., 2009). This kind of sophisticated tool-use involves choosing the appropriate objects in a complex hierarchical sequence in order to obtain a goal which is kept in mind throughout the process. This kind of sequencing and mental representation is a hallmark of intentionality and self-regulation. And, chimpanzees have taken tool-making and use a step further into a realm previously thought to be unique to humans, that is, culture.

18. Culture is behavior that is learned socially (learned by watching others), is normative (represents something most individuals do), and collective (characteristic of a group or community) (McGrew, 2004). In other words, culture is a set of behaviors that is transmitted by social and observational learning (learning by watching others), which becomes characteristic of a certain group or population. Culture is a hallmark of human intelligence and is based on several



high-level cognitive capacities, including imitation (the direct mimicking of bodily actions), emulation (learning about the results of someone else's actions, then achieving those results in another way) and innovation (producing novel ways to do things and combining known elements in new ways) all of which chimpanzees share (see below).

19. Decades of observational field research in various locations in Africa have produced an overwhelming amount of evidence that wild chimpanzees possess different cultural traditions which they pass on from one generation to the next. These chimpanzee traditions meet the same criteria used to identify human culture. There are three general cultural domains found in humans and chimpanzees: 1) material culture, which is defined as the use of one or more physical objects as a means to achieve an end, 2) social culture, which is defined as behaviors that allow individuals to develop and benefit from social living, and 3) symbolic culture, which is defined as special communicative gestures and vocalizations which are only arbitrarily, i.e., symbolically, associated with certain intentions and behaviors (Whiten, 2011; McGrew, 2004).

20. With respect to the tool-making and using aspect of material culture, while all wild chimpanzees make and use tools, each chimpanzee group makes and uses a unique combination of tools known as a "tool kit." (McGrew, 1992, 2010; McGrew, Tutin and Baldwin, 1979). A chimpanzee tool kit is a unique set of about 20 different tools which are used for various functions in daily life. These include tools used for foraging and processing food, such as specialized sticks to open up termite mounds, stems used as probes in ant nests, sticks to get marrow out of the bones of dead animals, stone "hammer and anvil" to crack nuts, among a wide variety of others. Tools are also made and used for personal comfort and hygiene, including using leaves to clean the body, using certain stems to comb through hair, using sticks to clear the nasal passages and using a leafy twig to fan away flies, among many others. Tools also include those used for nest building (for

sleeping) which involve specialized ways of bending branches and sticks to make a comfortable and secure sleeping nest in the trees. These tool kits vary from group to group, are passed down by observing others performing the tasks and are found in a wide range of ecological locations, from savanna to rainforest. Tool-making is not genetically determined or fixed, that is, it is not “hard-wired” behavior or simple reflex. Rather, tool-making depends on the same mental abilities that underlie human culture – learning from others and making specific decisions about how to do things. Each chimpanzee group develops its own culture through its own behavioural choices. (McGrew, 1991, 2004; 2007; McGrew and Tutin, 1978; Schoening et al., 2008; Whiten, 2011 Whiten et al., 1999). The documented patterns of variation across chimpanzee groups are unique in the nonhuman animal world. Decades of field work show that there are at least 40 unique chimpanzee cultures spread across Africa. These cultures are made up of combinations of over 65 different identifiable behaviors. In addition to those already mentioned, these also include the ingestion of various plant materials for their medicinal properties as anti-bacterial agents and dewormers (Huffman et al., 1997).

21. Many of the tools in chimpanzee tool kits are not preserved in the archaeological record because they are made of organic materials that decompose over time, such as leaves, stems, bark, etc.. However, such chimpanzee stone tools as hammer and anvils are preserved in the archaeological record in the same way as are human stone tools. Therefore, chimpanzee stone artefacts have been compared with early human stone artefacts in terms of what they reveal about their comparative mental abilities. The foraging tool kits of some chimpanzee populations, such as in western Tanzania, are indistinguishable in complexity from the tools kits of some of the simplest material cultures of humans, such as Tasmanian aborigines (McGrew, 1987), and of the oldest known human artefacts, such as those of the Oldowan Industry discovered in East Africa

(Wynn and McGrew, 1998; Wynn et al. 2011). Dated chimpanzee stone artefacts that have been excavated from sites in West Africa show that there was once a chimpanzee “Stone Age” (just as there was a Stone Age for humans) that dates to at least 4,300 years ago (Mercader et al., 2002, 2007). The ages of the tools suggest that, in at least one population chimpanzee tool-making culture has been passed down for 225 generations (Boesch, 2012). These findings demonstrate that chimpanzee culture has very deep roots that predate the onset of settled farming villages and the invention of Iron Age technology in that part of Africa.

22. With respect to social culture, there are many social displays and social customs that chimpanzees pass down from one generation to the next (McGrew et al. 2001; Whiten et al. 1999). Examples include the famous “waterfall display” originally reported by Jane Goodall (1986) At a waterfall in the Gombe National Park, Tanzania, she observed male chimpanzees approach the waterfall and display in slow, rhythmic motion along the riverbed. For ten minutes or more, they pick up and throw rocks and branches, leap to seize hanging vines, and swing over the stream in the wind. Goodall refers to these purposeful displays as likely expressions of feelings of awe in the chimpanzees towards the waterfall. Another example is the social “rain dance”, which is a slow and deliberate pattern of rhythmic, bipedal locomotion at the start of rain performed mostly at the beginning of rainy season (Goodall, 1967). Another well-documented social custom is the grooming hand-clasp in which two chimpanzees clasp each other’s hands, raise those arms in the air, and groom each other with their free hand. This social custom was first observed in the Mahale Mountains of Tanzania (McGrew and Tutin, 1978) and occurs, with some variation, in certain locations and is completely absent in others (Nakamura and Uehara, 2004). This demonstrates the wide variability in social cultural expression across different chimpanzee groups.

23. The symbolic element that is key to human culture, is also found in wild chimpanzees. For instance, in one chimpanzee group arbitrary symbolic gestures are used to communicate desire to have sex whereas in another group an entirely different symbolic gesture is used to express the same sentiment (McGrew, 2011). The presence of symbolic culture in chimpanzees demonstrates that abstract concepts can be present without human language.

24. Comparisons between human and chimpanzee cultures demonstrate that the similarities are underwritten by a common set of mental abilities. The most important are imitation and emulation. Learning by observation is key to being able to imitate or emulate. Studies show that chimpanzees copy methods used by others to manipulate objects and use both direct imitation and emulation, depending on the circumstance (Horner and Whiten, 2005; Whiten et al., 2009). True imitation, which involves copying bodily actions, is an important hallmark of self-awareness because it suggests the individual has a sense of his own body and how it corresponds to someone else's body and that he can manipulate his body in accordance with the other's actions. There is ample evidence that, under the right circumstances, chimpanzees mimic the actions of others precisely, even mimicking the correct sequence of actions to achieve a goal (Buttleman et al., 2007; Whiten et al., 1996; Whiten et al., 2009). For instance, chimpanzees can imitate the actions of humans, or other chimpanzees, as well as the exact sequence of three actions in order to open up an "artificial fruit" to get a treat (Whiten et al., 1996). Chimpanzees may directly imitate someone else's way to achieve a goal when they have not yet figured out their own way to achieve the same goal. But, when chimpanzees already have the skills to complete a task they tend to emulate, not imitate (Horner and Whiten, 2005). These findings show that chimpanzees make choices about whether to directly copy someone else's actions based on whether they think they can figure out how to do the task themselves. Not only do chimpanzees imitate, but they know

when they are being imitated, and respond as young human toddlers do when they realize they are being imitated (Nielsen et al., 2005; Haun and Call, 2008). When imitated, both chimpanzees and young human children tend to “test out” the behavior of the imitator by making repetitive actions and looking to see if the imitator does the same. This behavior is similar to how chimpanzees and toddlers test whether an image in a mirror is herself. This action, called “contingency checking,” is another hallmark of self-awareness. In addition to being aware of being imitated and being able to imitate others, chimpanzees are capable of “deferred imitation,” that is, copying actions they’ve seen in the past (Bering et al., 2000; Bjorklund et al., 2000; Marshall-Pescini and Whiten, 2008). Deferred imitation relies upon even more sophisticated capacities than direct imitation because the chimpanzees must remember the past action of another while replicating those actions in real time.

25. Finally, all of these capacities for imitation and emulation are necessary for “cumulative cultural evolution.” This specific kind of cultural capacity, which is found in humans and chimpanzees, involves the ability to build upon the customs that came before (Nagel et al., 1993; Hirata and Mirimara, 2000; Myowa-Yamakoshi and Matsuzawa, 2000; Yamamoto, Humle and Tanaka, 2013). Moreover, chimpanzees, like humans, have a tendency to be social conformists (Whiten, Horner and de Waal, 2005), which allows them to maintain customs within groups. All of the evidence so far suggests a striking similarity between the mental capacities of humans and chimpanzees in the areas of observational learning, imitation (and thus self-awareness), decision-making, memory and innovation.

26. Chimpanzees appear to have moral inclinations and some level of moral agency, that is, they behave in ways that, if we saw the same thing in humans, we would interpret as a reflection of moral imperatives and self-consciousness. They ostracise individuals who violate social norms (Goodall, 1986). They respond negatively to inequitable situations, e.g. when offered

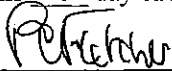
lower rewards than companions receiving higher ones, for the same task (Brosnan et al., 2005). When given a chance to play economic games (e.g. Ultimatum Game), they spontaneously make fair offers, even when not obliged to do so (Brosnan, 2013; Horner et al., 2011; Proctor et al., 2013; von Rohr, 2012).

27. Chimpanzee social life in nature is cooperative. They engage in collaborative social hunting, in which different individual hunters adopt different roles that increase the chances of success of the hunt. After the hunt, they share the meat from the prey gained (Boesch, 2012). Males cooperate in territorial defense, when they engage in risky boundary patrolling. Encounters with neighbouring males may be fatal, so that such cooperation may have life-or-death consequences (Mitani et al., 2010). These types of behaviors represent a purposeful and well-coordinated social system.



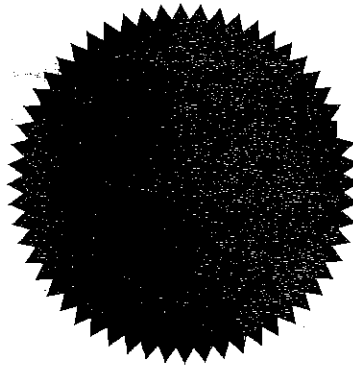
William C. McGrew

Sworn to before me  
this 21<sup>st</sup> day of November, 2013



Notary Public

**PETER C. FLETCHER**  
*Notary Public*  
27 Pretoria Road  
Cambridge CB4 1HD  
My commission is for life



# **EXHIBIT A**

This is "Embit A"  
returned to use Affidavit of  
William C. McGrew  
Petitioner Norman Kubler  
2/2/13

*Curriculum vitae*: **WILLIAM CLEMENT MCGREW**

(March 2012)

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Cambridge CB2 1QH, U.K.  
Email: wcm21@cam.ac.uk

Corpus Christi College  
Trumpington St  
Cambridge CB2 1RH

### Education

- 2009 Ph.D. in Biological Anthropology, University of Cambridge, England
- 1990 Ph.D. in Social Anthropology, University of Stirling, Stirling, Scotland  
Thesis: *Chimpanzee Material Culture: Implications for Human Evolution*
- 1970 D.Phil. in Psychology, University of Oxford, Oxford, England  
Thesis: *An Ethological Study of Social Behaviour in Preschool Children*
- 1965 B.S. (with Special Distinction) in Zoology, University of Oklahoma, Norman, USA

### Awards and Honours

- 2012 Senior Fellow, McDonald Institute for Archaeological Research, Cambridge
- 2010 Distinguished Alumni Award, College of Arts and Sciences, University of Oklahoma
- 2008 Osman Hill Medal, Primate Society of Great Britain
- 2005 Fellow, American Association for the Advancement of Science
- 2003 Corresponding Fellow, Royal Society of Edinburgh, Scotland
- 1998 Prix Delwart, for Human Ethology and Cultural Anthropology, Fondation Jean-Marie Delwart and Royal Academy of Sciences of Belgium (\$10,000)
- 1996 W.W. Howells Book Prize in Biological Anthropology, American Anthropological Association
- 1995 Outstanding Research Award, Center for Research into the Anthropological Foundations of Technology, and Leighton A. Wilkie Memorial Lecture, Indiana University



### Professional Training and Employment

- 2010  
(Jul) Visiting Fellow, Hanse-Wissanschafts Kollegg, Delmenhurst, Germany
- 2009- Professor of Evolutionary Primatology, University of Cambridge
- 2005-09 Lecturer in Biological Anthropology, University of Cambridge
- 2008 Fellow, Corpus Christi College, Cambridge
- 2003  
(Oct-Dec) Fellow, Collegium Budapest, Hungary
- 2003  
(Jan-Jun) Visiting Bye Fellow, Selwyn College, and Visiting Research Fellow, Leverhulme Centre for Human Evolutionary Studies, University of Cambridge
- 2001  
(Jul-Aug) Russell Trust Senior Research Fellow, School of Psychology, University of St. Andrews, Scotland
- 2001  
(Jun) Visiting Professor, Ecole des Hautes Etudes en Sciences Sociales, College de France, Paris
- 1994-2005 Professor, Depts. of Anthropology and Zoology  
Miami University
- 1994  
(autumn) Visiting Professor, Dept. of Anthropology  
University of California, Berkeley
- 1993-94 Wiepking Distinguished Professor, Depts. of Sociology & Anthropology, Psychology,  
and Zoology, Miami University, Oxford, Ohio
- 1993  
(spring) Visiting Faculty Member, Dept. of Biology  
Earlham College, Richmond, Indiana
- 1989-92 Reader in Psychology, University of Stirling
- 1986  
(autumn) Visiting Faculty Member, Depts. of Anthropology and Biology  
University of New Mexico, Albuquerque
- 1982 Nuffield Foundation Social Science Research Fellow
- 1981-89 Senior Lecturer in Psychology, University of Stirling
- 1980  
(autumn) Visiting Faculty Member, Dept. of Psychology  
University of North Carolina at Charlotte
- 1974-81 Lecturer in Psychology, University of Stirling, Scotland
- 1972-73 Research Associate, Dept. of Psychiatry and Behavioral Sciences  
Stanford University, and Gombe Stream Research Centre, Kigoma, Tanzania
- 1972 Visiting Investigator, Delta Regional Primate Research Center  
Tulane University, Louisiana

- 1971 (summer) Participant in Wenner-Gren Foundation Field School in Primatology  
Caribbean Primate Research Center, Cayo Santiago, Puerto Rico
- 1970-71 SSRC Postdoctoral Research Associate, Dept. of Psychology  
University of Edinburgh, Scotland
- 1969-70 National Institutes of Mental Health Postdoctoral Fellow  
Dept. of Psychology, University of Edinburgh
- 1968-69 Population Council Fellow, Dept. of Psychology, University of Edinburgh
- 1965-68 Rhodes Scholar, University of Oxford, Inst. of Experimental Psychology (66-68); Dept. of  
Zoology (65-66)

### **Research Grants**

- 2011 Emeritus Fellowship, "Chimpanzee Behaviour and Modeling Human Evolutionary Origins"  
Leverhulme Trust, £22,000
- 2005 "Sex Differences in Faunivory of Wild Bonobos at Salonga," Leakey Foundation, \$14,500  
(with L.F. Marchant)
- 2003-08 "Revealing Hominid Origins Initiative," National Science Foundation, HOMINID program,  
\$48,000 (sub-contract, PI: F. Clark Howell & T.D. White, Univ. California-Berkeley)
- 2000 "Savanna Chimpanzee Behavior and Ecology at Mont Assirik, Senegal," National  
Geographic Society, \$7000 (with J.D. Pruettz)
- 2000 "Savanna Chimpanzee Density and Distribution at Mont Assirik, Senegal," Primate  
Conservation, Inc., \$2500 (with J.D. Pruettz)
- 1999 "Sex Differences in Faunivory in Wild Chimpanzees at Mont Assirik, Senegal," L.S.B.  
Leakey Foundation, \$13,000 (with L.F. Marchant)
- 1999 "Behavioral Ecology of Wild Chimpanzees at Mont Assirik, Senegal", Philip and Elaina  
Hampton Fund, Miami University, \$6000 (with L.F. Marchant)
- 1996 "Behavior of Wild Chimpanzees in Tanzania: Handedness, Prehension and Object  
Manipulation", Philip & Elaina Hampton Fund, Miami University, \$5961 (with L.F.  
Marchant)
- 1995 "Comparative Research on Chimpanzees and Bonobos", Max-Planck-Gesellschaft,  
D.M. 5000 (with L.F. Marchant)
- 1995 "Great Ape Societies", Publication grant, Wenner-Gren Foundation for Anthropological  
Research, \$10,000 (with L.F. Marchant, T. Nishida).
- 1994 "Laterality of Function in Human and Nonhuman Primates", Max-Planck-Gesellschaft,  
D.M. 7000 (with L.F. Marchant)
- 1993 "Laterality of Function in Traditional Human Societies", Max-Planck-Gesellschaft,  
D.M. 12,000 (with L.F. Marchant)

- 1992 "Laterality of Limb Function in Wild Chimpanzees, Gombe, Tanzania", L.S.B. Leakey Foundation, \$7500 (with L.F. Marchant)
- 1981 "Cross-Cultural Study of Tool-use by Wild Chimpanzees", Science and Engineering Research Council, £11,859.
- 1979 "Ecology and Ethology of Four Sympatric Primate Species in Senegal, West African (Final Stage)", Science Research Council, £13,462.  
 "Chimpanzees in Senegal Using Tools to Obtain Termites", Leakey Foundation, \$1462.
- 1978 "Ecology and Ethology of Four Sympatric Primate Species in Senegal, West Africa (Supplement)", Science Research Council, £13,650.
- 1977 "Ecology and Ethology of Four Sympatric Primate Species in Senegal, West Africa", Science Research Council, £15,644.
- 1976 "Ecology and Behavior of Chimpanzees, West Africa", Wenner-Gren Foundation for Anthropological Research, \$1000.  
 "Ecology and Behavior of Wild Chimpanzees in Senegal, West Africa", Science Research Council, £4164.
- 1975 "Field Study of Wild Chimpanzees in Senegal", Carnegie Trust for the Universities of Scotland, £2000.  
 "Behavior and Ecology of Wild Chimpanzees in Senegal", Leakey Foundation, \$2000.

Plus 23 smaller grants totaling ca. \$16,000 awarded from 1974-2011 by American Philosophical Society, Boise Trust, British Council, Carnegie Trust for the Universities of Scotland, L.S.B. Leakey Trust, Royal Anthropological Institute, Royal Society, Royal Zoological Society of Scotland, University of Stirling, University of Cambridge.

### Teaching

Semester courses taught (all or in part) at Earlham College (E) or at Universities of California (C), Cambridge (Cb), Stirling (S), New Mexico (NM), North Carolina at Charlotte (NC), or Miami University (M):

Apes & Human Evolution		Cb
Animal Behaviour		S
Avian & Mammalian Social Systems	(Graduate)	NM
Behavioral Ecology & Conservation Biology	(Graduate)	M
Behavioral Primatology		C, S
Cultural Primatology		Cb
Developmental Psychology		NC, S
Evolution of Human Behaviour	(Capstone)	M, S, NC
Evolutionary Medicine	(Graduate)	M
Heredity, Environment, & Human Society		M
The Human Animal	(Capstone, Honors Seminar)	M

Human Evolutionary Ecology	(Graduate)	M
Introductory Psychology		S
Foundations of Biological Anthropology		M
Mammalogy		M
Origins of Human Material Culture	(Graduate)	C, NM
Primate Behavior & Human Evolution	(Honors Seminar)	S, Cb
Socio-Ecology of Primates		M, E, Cb
Senior Seminar in Anthropology	(Capstone)	M

External examination of Ph.D.'s at the Universities of Birmingham, Reading, St. Andrews, Sheffield, Stirling, London (Birkbeck, UCL, Goldsmiths); M.Phil. (CNAAB) Birmingham Polytechnic; and M.Sc. at St. Andrews.

1992 Award from University of Stirling Teaching Fund: £1072 to develop new program of teaching practicals in Animal Behaviour.

#### Graduate Student Primary Supervision

Baldwin, P.J. Ph.D. 1979	The natural history of the chimpanzee ( <i>Pan troglodytes verus</i> ) at Mt. Assirik, Senegal.
Niemeyer, C.L. M.Sc. 1980	Interference in mating in the stumptailed macaque ( <i>Macaca arctoides</i> ).
Harrison, M.J.S. Ph.D. 1982	The behavioural ecology of green monkeys, <i>Cercopithecus sabaues</i> , at Mt. Assirik, Senegal.
Chamove, A.S. Ph.D. 1982	Development of aggressiveness in macaques.
Feistner, A.T.C. M.Sc. 1985	Food sharing in the cotton-top tamarin, <i>Saguinus oedipus oedipus</i> .
Williamson, E.A. Ph.D. 1988	Behavioural ecology of the lowland gorilla ( <i>Gorilla g. gorilla</i> ) in Gabon.
Brereton, A.R. Ph.D. 1988	Sexual interference in stumptail macaques ( <i>Macaca arctoides</i> ): Is it return-benefit spite?
Hannah, A.C. Ph.D. 1989	Behavioural rehabilitation of laboratory chimpanzees in Liberia.
Price, E.C. Ph.D. 1990	Cooperative breeding in captive families of the cotton-top tamarin.
Moore, K. M.Sc. 1993	Dispersal and philopatry in captive cotton-top tamarins.

- Oberski, I. Grooming relations in captive chimpanzees, Edinburgh Zoo.  
Ph.D. 1993
- Newing, H. Behavioural ecology of duikers (*Cephalophus* spp.) in forest and farmbrush,  
Ph.D. 1994 Tai, Cote d'Ivoire.
- Ham, R. Behaviour and ecology of grey-cheeked mangabeys (*Cercocebus albigena*) in the  
Ph.D. 1994 Lope Reserve, Gabon.
- Hardie, S.M. Polyspecific associations of tamarins (Callitrichidae).  
Ph.D. 1995
- Henry, M. Competition for resources between *Homo sapiens* and *Pan paniscus* in the Lomako  
M.Sc. 1998 Forest of Zaire.
- Videan, E.N. Bipedality in bonobo (*Pan paniscus*) and chimpanzee (*Pan troglodytes*):  
M.Sc. 2000 Implications for the origins of bipedalism in hominids.
- Videan, E.N. Chimpanzee nest-building and sleep: A model for the evolutionary origins of shelter.  
Ph.D. 2005
- Persad-Clem, R. Adaptation of captive chimpanzees to free-ranging in a natural temperate environment.  
Ph.D. 2009
- Smaers, J. Comparative socioecology of primate brain component evolution.  
M. Phil. 2006
- Koops, K. Elementary technology of foraging and shelter in the chimpanzees of the Nimba  
Ph.D. 2011 mountains, Guinea.
- Phillips, C. Chimpanzee diet: Analyses at macroscopic, microscopic and molecular level.  
Ph.D. 2012
- Stewart, F. The evolution of shelter: Ecology and ethology of chimpanzee nest-building.  
Ph.D. 2011
- Carvalho, S. Evolutionary origins of technological behaviour: A primate archaeology approach to  
Ph.D. student chimpanzees
- Bertolani, P. GIS-based study of chimpanzee ranging  
Ph.D. student

### **Professional Societies (Offices Held)**

American Association for the Advancement of Science	
Electorate Nominating Committee, Anthropology	2001-2004
Chimp Haven, Board of Directors	1999-2005
International Primate Protection League, Scientific Advisory Board	1977-

International Society for Human Ethology, Board of Trustees	1978-1982, 2005-
Primate Specialist Group-Africa	1985-
IUCN-SSC Primate Special Group, Sub. Comm. on Great Apes	2004-
Primate Society of Great Britain, Council	1985-1988
Working Party on Conservation	1979-1983
Royal Anthropological Institute, Council	1990-1992
Committee on Biological & Social Anthropology	1988-1991
Royal Zoological Society of Scotland, Council	1974-1978; 1990-1992
Executive Committee	1975
Animal Health and Management Committee	1974-1981

### Editorial Boards

<i>American Journal of Primatology</i> , Consulting Editor	1991-1999
<i>Carnivore</i>	1978-1983
<i>Ethology and Sociobiology</i> , European Editor	1984-1992
Editorial Board	1994-1996
<i>Folia Primatologica</i>	1989-2009
<i>Human Ethology Newsletter</i> , Reviews Co-Editor	1982-1986
<i>Human Evolution</i>	1994-
<i>Human Nature</i>	1990-1996
<i>International Journal of Primatology</i>	1995-2000
<i>Journal of Human Evolution</i> , Assoc. Editor	1983, 1992-1995
<i>Man</i>	1987-1992
<i>Pan Africa News</i>	1997-
<i>Primates</i>	1985-

### Reviewing of Grant Applications/Book Proposals/Manuscripts (cumulative)

Review Panel, Individual Research Grants, Wenner-Gren Foundation for Anthropological Research, 2004-2005  
 Alexander von Humboldt Foundation, Association for the Study of Animal Behaviour, Bonobo Protection Fund, Cambridge University Press, Canada Council, H.F. Guggenheim Foundation, Harvard University Press, Japan Society for the Promotion of Science, L.S.B. Leakey Foundation, Leverhulme Trust, Charles & Anna Morrow Lindbergh Foundation, National Geographic Society, National Science Foundation (Anth., Psychobiol.), Primate Conservation Inc., Princeton University Press, Royal Anthropological Institute, School of American Research Press, Science & Engineering Research Council, W.H. Freeman, Wenner-Gren Foundation for Anthropological Research

### Reviewing of Journal Manuscripts (cumulative)

*African Journal of Ecology, American Journal of Primatology, American Journal of Physical Anthropology, American Naturalist, Animal Behaviour, Animal Welfare, Annals of Tropical Medicine & Hygiene, Behavioral and Brain Sciences, Behaviour, Biology Letters, Cambridge Archaeological Journal, Carnivore, Current Anthropology, Developmental Psychobiology, Ecology*

*and Evolution, Ecotvopica, Ethology and Sociobiology, Ethology, Evolutionary Anthropology, Folia Primatologica, Geographica, Human Evolution, Human Nature, Intl Journal of Behavioral Development, Intl Journal of Primatology, Journal of Archaeological Science, Journal of Comparative Psychology, Journal of Human Evolution, Journal of Linnean Society of London, Journal of Royal Anthropological Institute, Laterality, Man, Nature, Oryx, Pan Africa News, Primates, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society of London B, Quarterly Journal of Experimental Psychology, Science, Yearbook of Physical Anthropology, Zoo Biology.*

### **Invited Lectures to National or International Meetings**

- 2011 "Triangulating on Technology: Three Routes to Percussive Lithics in Primates", podium presentation, Fourth Congress of European Federation for Primatology, Lisbon, PORTUGAL.
- 2011 "Unnatural Behaviour: Obstacle or Insight at the Species Interface?", roundtable, 'Humans and Other Apes: Rethinking the Species Interface', New York, NY.
- 2011 "Memories of Gombe over Three Decades", symposium, 'An Oral History of Primatology at Cambridge', Personal Histories Project, Cambridge.
- 2011 "Chimpanzees and the Last Common Ancestor", Invited public lecture, Institute of Human Origins, Arizona State Univ., Tempe, AZ.
- 2010 "Fifty Years of Chimpanzee Tool Use: What's Left to Know?", lect., University of Oklahoma, USA
- 2009 "The First 4 Million Years of Human Evolution", Royal Society, discussion meeting, London
- 2009 "150 Anos derpres de Darwin: Evolution futuro o crisis?", CENIEH, Symp, Burgos, Spain
- 2009 "The Dawn of Language, Imagination, and Spirituality", Templeton Foundation, symp., Cape Town, South Africa
- 2008 W.C. Osman Hill Lecture, Primate Society of Great Britain, London, U.K.
- 2008 "Origins of Percussive Technology", Leverhulme Centre for Human Evolutionary Studies, symp., Cambridge, U.K.
- 2008 "Fest Conference for W. Schiefenhoewel", Max-Planck-Gesellschaft, symp., Andechs, Germany
- 2008 "Human and Non-Human Ethology", symp., Russian Academy of Sciences, Novosibirsk, Russia
- 2007 Belgian Group for Primatology, keynote lecture, Antwerp, Belgium
- 2007 7<sup>th</sup> Kongress der Gesellschaft fur Anthropologie, plenary lecture, Freiburg, Germany
- 2007 "The Mind of the Chimpanzee," Understanding Chimpanzees IV, symp., Chicago, USA
- 2007 James Drever Lecture, School of Psychology, University of Edinburgh, Scotland
- 2006 "Anthropology at UCL," symp., University College London
- 2006 "Transcultural Universals," symp., Wissenschaftskolleg, Delmenhorst, Germany
- 2006 "Bossou 30 Ans," symp. Conakry, Republic of Guinea
- 2006 Journal of Anthropological Research Annual Lecture, Albuquerque, USA
- 2005 "Nature, Language, Culture: Learning from Animals?" symp., Essen, Germany
- 2005 "Chimpanzee Cultures," Origins of Humans, San Diego, USA
- 2005 "Chimpanzee Material Culture," Chacmool Conf., symp. Calgary, Canada
- 2004 "African Great Apes: Evolution, Diversity & Conservation", symp., Kyoto University, Japan
- 2003 "Konrad Lorenz Symposium," Ludwig-Maxmillians-Universität, Munich, Germany
- 2003 "Konrad Lorenz Symposium 2," Bucharest, Romania
- 2003 "International Primatological Conference," Lisbon, Portugal
- 2002 "Evolution, Behaviour, Society," Human Ethology Summer School, Pushchino, Russia
- 2002 "Production and Reproduction," Southern California Primate Research Forum, Los Angeles, USA
- 2001 "Culture in Marine Mammals," Biennial Marine Mammals Conference, Vancouver, Canada
- 2001 "Fluid Bread: Images and Usages of Beer in Crosscultural Perspective," symp., International Commission for the Anthropology of Food, Seewiesen, Germany

- 2001 "Evolutionary Neighbors," symp., 4th International SAGA Forum, Okayama, Japan
- 2000 "The Social Brain: Evolution and Pathology", symp., Max-Planck Inst. Beh. Physiol., Bochum, Germany
- 2000 "Animal Social Complexity and Intelligence", symp., Chicago Acad. of Sci, Chicago, USA
- 2000 "Human Universals", symp., Hanse Wissenschaftskolleg, Andechs, Germany
- 2000 "Chimpanzee Cultures", exhibition, New Frontiers in Science 2000, Royal Society and Royal Society of Edinburgh, London and Edinburgh, UK
- 2000 "Behavioral Diversity in Chimpanzees and Bonobos", symp., Max-Planck Inst. Evolutionary Anthropol., Seeon, Germany
- 1999 "Evolution and Culture", symp., Fondation Fyssen, St. Germaine, France
- 1999 "Anthropology at the End of the Century", symp., Wenner-Gren Foundation, Cabo San Lucas, Mexico
- 1999 "Origins", symp., Living Links Center for Advanced Study of Human and Ape Evolution, Atlanta, USA
- 1999 "Primate Cultures", symp., Southern California Primate Research Forum, Los Angeles, USA
- 1998 "The Early Human Diet: The Role of Meat", symp., Wenner-Gren Foundation, Madison, USA
- 1998 "Hominid and Non-Hominid Primate Behaviour and Lifestyles", symp., Dual Congress of Int. Assn. Study of Human Palaeontology and Int. Assn. of Human Biologists, Sun City, South Africa
- 1998 "Evolving the Human Mind", symp., Hang Seng Centre for Cognitive Studies, Sheffield, UK
- 1998 "Primate and Human Nature", roundtable, Dialogue between Science and Religion, Amer. Assn. Advancement Sci., Washington, USA
- 1997 "Human Evolution", symp., Cold Spring Harbor Laboratory, New York, USA
- 1997 "Exploring the Primate Mind", symp., National Zoological Park, Smithsonian Institution, Washington USA
- 1995 "Chimpanzee Behavioral Diversity", plenary lecture, Midwest Animal Behavior Conference, Oxford, USA
- 1994 "The Great Apes Revisited", symp., Wenner-Gren Foundation, Cabo San Lucas, Mexico
- 1994 "Anthropologie Heute", symp., Gesellschaft für Anthropologie, Potsdam, Germany
- 1992 "Ethological Roots of Culture", NATO Advanced Study Inst., Cortona, Italy
- 1991 "Great Apes of the World", symp., Orangutan Foundation International, Jakarta, Indonesia
- 1991 "Food and the Status Quest", symp., European Commission on the Anthropology of Food, Ringberg, Germany
- 1991 "Foraging Strategies and Natural Diet of Monkeys, Apes, and Humans", symp., Royal Society Discussion Meeting, London, UK
- 1991 "Understanding Chimpanzees II", symp., Chicago Acad. of Sci., symp., Chicago, USA
- 1990 "Tools, Language, and Intelligence: Evolutionary Implications", symp., Wenner-Gren Foundation, Cascais, Portugal
- 1988 "Tool-Use by Primates", symp., Fondation Fyssen, Versailles, France
- 1987 "Comparative Socioecology of Mammals and Man", symp., Brit. Ecological Society and Royal Anthropol. Inst., Durham, UK
- 1986 "The Pleistocene Perspective", symp., World Archaeology Congress, Southampton, UK
- 1986 "Understanding Chimpanzees", symp., Chicago Acad. of Sci., Chicago, USA
- 1986 "Fourth International Conference on Hunting and Gathering Societies", symp., London, UK
- 1985 "Primates", symp., British Social Biology Council, London, UK
- 1984 "The Sharing of Food", symp., Werner Reimers Stiftung, Bad Homberg, Germany
- 1980 "Nonhuman Primates in Biomedical Programs", symp., Humane Society of U.S.A., San Francisco, USA
- 1974 "The Great Apes", symp., Wenner-Gren Foundation, Burg Wartenstein, Austria
- 1972 "The Growth of Competence", Ciba Foundation, London, UK



### Colloquia Given at Universities and Other Places (\* = Multiple)

\* Aberdeen, Alberta, \* Andechs (Max-Planck), \* Arizona State, Armstrong Atlantic, Basel, Bristol, Bucknell, Budapest, Buffalo, \* California-Berkeley, California-Davis, California-Los Angeles, \* California-San Diego, \* Cal State-Fullerton, \* Cambridge, Case-Western, Centenary, \* Centre College, Charleston, Chester, Chicago Zool. Soc., Cincinnati, Colorado-Boulder, Colorado-Colorado Springs, Colorado-Denver, \* Duke, Dundee, \* Durham, \* Earlham, \* Edinburgh, Emory, Georgia, George Washington University, Glasgow, \* Göttingen, Illinois, \* Indiana, \* Jersey Zoo, \* John Carroll University, Kent, Kent State, Leipzig, \* Liverpool, Manchester, \* Miami (Ohio), Michigan, \* Milano, Minnesota, Munich, \* New Mexico, New York University, North Carolina-Charlotte, Ohio State University, \* Oklahoma, \* Oxford, Oxford Brookes, Pisa, Potsdam, Roma, \* St. Andrews, South Carolina-Beaufort, Stanford, Southern California, \* Stirling, Tennessee, \* University College London, Utica, \* Wisconsin, Wright State, \* Zürich

### Conference Organization

- 2012 "Insectivory", symposium, American Association of Physical Anthropologists, Portland, Oregon  
2011 "Lateral Thinking: The Evolution of Human Handedness", workshop, HWK, Delmenhorst, Germany  
2007 "Palaeoanthropology Meets Primatology," symposium, LCHES, University of Cambridge  
2005 "Primatology Meets Palaeoanthropology," workshop, Miami University, Oxford, Ohio  
1996 "Cebus Meets Pan," Symposium of International Primatological Society, Madison (with E. Visalberghi)  
1996 "Nesting and Resting in Primates", Symposium of International Primatological Society, Madison (with B. Fruth)  
1994 "The Great Apes Revisited", Wenner-Gren Foundation for Anthropological Research, Cabo San Lucas, Mexico (with T. Nishida)  
1992 "Scottish Conference on Animal Behaviour", Stirling  
1990 "Origins of Monogamy", Symposium of International Primatological Society, Kyoto  
1989 "Behavioural Ecology of Neotropical Primates", Meeting of Tropical Ecology Group, British Ecological Society, London  
"Weekend Workshop on Callitrichid Behavior", Scottish Primate Research Group, Stirling  
1988 "Tools Compared: The Material of Culture", Conference of Royal Anthropological Institute, London  
1985 "Scottish Conference on Animal Behaviour", Stirling  
1982 "Gorilla Ecology", Workshop of International Primatological Society, Atlanta  
1981 "Scottish Conference on Animal Behaviour", Stirling  
1980 "Primate Tool-Use", Satellite Symposium of International Primatological Society, Florence

### Books

- 1972 McGrew, W.C. *An Ethological Study of Children's Behavior*. New York: Academic Press, 268 pp.

Published in The Child Psychology Series. Had positive reviews in *Nature*, *Science*, *Contemporary Psychology*, etc. Translated into Italian and Japanese.

- 1992 Nishida, T., McGrew, W.C., Marker, P., Pickford, M. & de Waal, F.B.M. (eds.) *Topics in*

*Primateology, Volume 1. Human Origins.* Tokyo: University of Tokyo Press, 475 pp.

- 1992 McGrew, W.C. *Chimpanzee Material Culture: Implications for Human Evolution.* Cambridge University Press, 277 pp.

Won the 1996 W.W. Howells Prize of the American Anthropological Association, for the best book of the year in biological anthropology. Had positive reviews in *Nature*, *Science*, *Scientific American*, *New Scientist*, *American Scientist*, as well as in popular press, e.g. *Economist*, *Times Higher*, and disciplinary journals, e.g. *Contemporary Psychology*, *Cambridge Archaeological Journal*. In its fourth printing, and translated into Japanese.

- 1994 Wrangham, R.W., McGrew, W.C., de Waal, F.B.M. & Heltne, P.G. (eds.) *Chimpanzee Cultures.* Cambridge, MA: Harvard University Press, 424 pp.

This edited volume received positive reviews in *Science*, *New Scientist*, *Science News*, *Ethology*, *Times Higher*, *Los Angeles Times*, etc. Went into paperback a year after publication.

- 1996 McGrew, W.C., Marchant, L.F. & Nishida, T. (eds.) *Great Ape Societies*, Cambridge: Cambridge University Press, 328 pp.

This edited volume received positive reviews in both general (*Nature*, *American Scientist*) and specialist (*American Zoologist*, *Evolutionary Anthropology*, *Man*) scientific journals, as well as the popular press (*BBC Wildlife*, *Times Higher*). In its third printing.

- 2004 McGrew, W.C. *The Cultured Chimpanzee: Reflections on Cultural Primatology*, Cambridge University Press, 248 pp.

Positive reviews in *Nature*, *American Scientist*, *Primates*, *American Anthropologist*, etc.

- 2010 Nishida, T., Zamma, K., Matsusaka, T., Inaba, A. & McGrew, W.C. *Chimpanzee Behavior in the Wild: A Visual Encyclopedia.* Springer Verlag, 255 pp.

#### **Journal Articles & Book Chapters** (refereed journal articles in bold)

1. 1969 McGrew, W.C. An ethological study of agonistic behaviour in preschool children.  
In: *Proceedings of the Second International Congress of Primatology, Volume 1, Behavior*, Carpenter, C.R. (ed), Basel: Karger, pp. 149-159.
2. 1970 McGrew, W.C. Glossary of motor patterns of four-year-old children.  
In: *Direct Observation and Measurement of Behavior*, Hutt, S.J. & C., Springfield, IL: Charles C. Thomas, pp. 210-218.
3. 1971 McGrew, W.C. & McGrew, P.L. Group formation in preschool children.  
In: *Proceedings of the Third International Congress of Primatology, Volume 3, Behavior*, Kummer, H. (ed), Basel: Karger, pp. 71-78.
4. Hudson, P.T., McGrew, W.C. & McGrew, P.L. Attention structure in a group of preschool infants.  
In: *Proceedings of the CIE Architectural Psychology Conference*, Kingston-on-Thames: RIBA & Kingston Polytechnic, pp. 12-16.
5. 1972 McGrew, W.C. Aspects of social development in nursery school children, with emphasis on

- introduction to the group.  
 In: *Ethological Studies of Child Behaviour*, Blurton Jones, N.G. (ed.),  
 London: Cambridge University Press, pp. 129-156.
6. McGrew, P.L. & McGrew, W.C. Changes in children's spacing behaviour with nursery school experience. *Human Development*, 15: 359-372.
  7. McGrew, W.C. & Tutin, C.E.G. Chimpanzee dentistry. *Journal of the American Dental Association*, 85: 1198-1204.
  8. 1973 McGrew, W.C. & Tutin, C.E.G. Chimpanzee tool use in dental grooming. *Nature*, 241: 477-478.
  9. Tutin, C.E.G. & McGrew, W.C. Chimpanzee copulatory behaviour. *Folia Primatologica*, 19: 237-256.
  10. Tutin, C.E.G. & McGrew, W.C. Sexual behavior of group-living adolescent chimpanzees. *American Journal of Physical Anthropology*, 38: 195-200.
  11. McGrew, W.C. & McGrew, P.L. McGrew-McGrew system.  
 In: *Measures of Maturation: An Anthology of Early Childhood Observation Instruments, Volume 2*, Boyer, E., Simon, A. & Karaffin, G. (eds.), Philadelphia: Research for Better Schools, Inc., pp. 1313-1365.
  12. 1974 McGrew, W.C. Interpersonal spacing of preschool children.  
 In: *The Growth of Competence*, Connolly, K.J. & Bruner, J.S. (eds.),  
 London: Academic Press, pp. 265-281.
  13. McGrew, W.C. Tool use by wild chimpanzees in feeding upon driver ants. *Journal of Human Evolution*, 3: 501-508.
  14. 1975 McGrew, W.C. Patterns of plant food sharing in wild chimpanzees.  
 In: *Contemporary Primatology*, Kondo, S. & Ehara, A. (eds.),  
 Basel: S. Karger, pp. 304-309.
  15. McGrew, W.C. & McGrew, P.L. Interpersonal spacing behavior of preschool children during group formation. *Man-Environment Systems*, 5: 43-48.
  16. McGrew, W.C., Tutin, C.E.G. & Midgett, P.S. Tool use in a group of captive chimpanzees. I: Escape. *Zeitschrift für Tierpsychologie*, 37: 146-162.
  17. 1976 File, S.K., McGrew, W.C. & Tutin, C.E.G. The intestinal parasites of a community of feral chimpanzees, *Pan troglodytes schweinfurthii*. *Journal of Parasitology*, 62: 259-261.
  18. 1977 McGrew, W.C. Socialization and object manipulation of wild chimpanzees.  
 In: *Primate Bio-Social Development*, Chevalier-Skolnikoff, S. & Poirier, F.E. (eds.),  
 New York: Garland, pp. 261-288.
  19. 1978 McGrew, W.C. & Tutin, C.E.G. Evidence for a social custom in wild chimpanzees? *Man*, 13: 234-251.
  20. McGrew, W.C., Tutin, C.E.G., Baldwin, P.J., Sharman, M.J., & Whiten, A.  
 Primates preying upon vertebrates: New records from West Africa (*Pan troglodytes verus*, *Papio papio*, *Cercopithecus sabaesus*). *Carnivore*, 1: 41-45.
  21. 1979 McGrew, W.C. Evolutionary implications of sex differences in chimpanzee predation and tool use.  
 In: *The Great Apes*, Hamburg, D.A. & McCown, E.R. (eds.), Menlo Park: Benjamin/Staples, pp. 441-463.
  22. McGrew, W.C., Tutin, C.E.G., Baldwin, P.J. New data on meat-eating by wild chimpanzees. *Current Anthropology*, 20: 238-239.
  23. McGrew, W.C., Tutin, C.E.G., Baldwin, P.J. Chimpanzees, tools and termites: Cross-cultural comparisons of Senegal, Tanzania and Rio Muni. *Man*, 14: 185-214.
  24. 1980 Rushton, E. & McGrew, W.C. Breech birth of a chimpanzee (*Pan troglodytes*).

- Journal of Medical Primatology*, 9: 389-393.
25. Graham, C.A. & McGrew, W.C. Menstrual synchrony in female under-graduates living on a coeducational campus. *Psychoneuroendocrinology*, 5: 245-252.
  26. 1981 McGrew, W.C. The female chimpanzee as an evolutionary prototype.  
In: *Woman the Gatherer*, Dahlberg, F. (ed.),  
New Haven: Yale University Press, pp. 35-73.
  27. McGrew, W.C., Baldwin, P.J. & Tutin, C.E.G. Chimpanzees in a hot, dry and open habitat: Mt. Assirik, Senegal, West Africa. *Journal of Human Evolution*, 10: 227-244.
  28. McGrew, W.C. Social and cognitive capabilities of non-human primates: Lessons from the field to captivity. *International Journal for the Study of Animal Problems*, 2: 138-149.
  29. Tutin, C.E.G., McGrew, W.C. & Baldwin, P.J. Responses of wild chimpanzees to potential predators.  
In: *Primate Behavior and Sociobiology*, Chiarelli, A.B. & Corruccini, R.S. (eds.),  
Heidelberg: Springer-Verlag, pp. 136-141.
  30. Baldwin, P.J., Sabater Pi, J., McGrew, W.C. & Tutin, C.E.G. Comparison of nests made by different populations of chimpanzees (*Pan troglodytes*). *Primates*, 22: 474-486.
  31. 1982 McGrew, W.C., Baldwin, P.J. & Tutin, C.E.G. Observations preliminaires sur les chimpanzes (*Pan troglodytes verus*) du Park National du Niolola-Koba.  
*Memoires de l'Institut Fondamental d'Afrique Noire*, 92: 333-340.
  32. Baldwin, P.J., McGrew, W.C. & Tutin, C.E.G. Wide ranging chimpanzees at Mt. Assirik, Senegal. *International Journal of Primatology*, 3: 367-383.
  33. McBeath, N.M. & McGrew, W.C. Tools used by wild chimpanzees to obtain termites at Mt. Assirik, Senegal: The influence of habitat. *Journal of Human Evolution*, 11: 65-72.
  34. Spencer, F., Boaz, N.T., Allen, M. & McGrew, W.C. Biochemical detection of fecal hematin as a test for meat-eating in chimpanzees (*Pan troglodytes*). *American Journal of Primatology*, 3: 327-332.
  35. McGrew, W.C. Recent advances in the study of tool use by non-human primates.  
In: *Advanced Views in Primate Biology*, Chiarelli, A.B. & Corruccini, R.S. (eds.),  
Heidelberg: Springer-Verlag, pp. 177-183.
  36. McGrew, W.C., Sharman, M.J., Baldwin, P.J. & Tutin, C.E.G. On early hominid plant-food niches. *Current Anthropology*, 23: 213-214.
  37. 1983 McGrew, W.C. Animal foods in the diets of wild chimpanzees: Why cross-cultural variation? *Journal of Ethology*, 1: 46-61.
  38. Tutin, C.E.G., McGrew, W.C. & Baldwin, P.J. Social organization of savanna-dwelling chimpanzees, *Pan troglodytes verus*, at Mt. Assirik, Senegal. *Primates*, 24: 154-173.
  39. McGrew, W.C. & Rogers, M.E. Chimpanzees, tools and termites: New records from Gabon. *American Journal of Primatology*, 5: 171-174.
  40. 1984 Anderson, J.R. & McGrew, W.C. Guinea baboons (*Papio papio*) at a sleeping site.  
*American Journal of Primatology*, 6: 1-14.
  41. McGrew, W.C. & Phtiaka, H. A simple and direct method of assessing social dominance in young children. *Human Ethology Newsletter*, 4 (2): 2-4.
  42. McGrew, W.C. & McLuckie, E.C. Do monkeys prefer to give birth at week-ends?  
*Laboratory Primate Newsletter*, 23 (4): 1-4.
  43. 1985 MacKenzie, M.M., McGrew, W.C. & Chamove, A.S. Social preferences in stump-tailed macaques (*Macaca arctoides*): Effects of kinship, rearing and companionship.  
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# **EXHIBIT B**

This is "Exhibit B"  
referred to as an affidavit of  
William C McGrew  
Adrian M. Katsis  
2/12/13

## EXHIBIT B

### References:

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