# The Smithsonian Institution and General Admission Fees 

Office of Policy and Analysis (OP\&A) ${ }^{1}$ Smithsonian Institution<br>May 2008

We want many more Americans to see the Smithsonian as belonging to them, as serving their needs. Some of the carbon atoms in the Hope diamond belong to each of us. The Spirit of St. Louis is ours. Admission charges would diminish this sense of real ownership and perhaps, in the long run, of commitment.

Foreign visitors, who do not support the museums through taxes, would probably pay admission fees willingly. Indeed, many are now surprised at the free entry. They are also impressed. Free access is a symbol to foreigners of many of the fundamental aspects of American society.

Commission on the Future of the Smithsonian Institution, 1995

## Introduction

Whether or not to charge the public a general admission fee to visit a museum is a question that has been debated for centuries. As early as 1784, a sum to enter the British Museum was proposed but free admission prevailed. (O’Hagan, 1994.) No simple question, it involves issues of social equity and access, cultural economics, behavioral psychology, financial management, politics, and the fundamental role of national museums.

The Smithsonian Institution—free of charge to the visiting public for all of its 162 years ${ }^{2}$ formally considered the question six times in the past 50 years, and six times concluded that the benefits of not charging general admission outweighed the costs of lost revenue and other opportunity costs. (See Table 1)

[^0]Table 1. Smithsonian General Admission Fee Studies

| Year | Impetus and study group | Upshot |
| :---: | :---: | :---: |
| 1954 | Congress requested feasibility study of nominal admission charge ( 10 to 25 cents) to pay for building construction and renovation | - Estimated \$75,000 from admission fees <br> - Incompatible with the Smithsonian as an educational and cultural institution and as a national shrine <br> - Contrary to charging practices among major museums in the United States <br> - Potentially adverse to the Smithsonian and the national interest; far outweighing financial gain. |
| 1986 | In response to Federal budget cuts tied to Gramm-Rudman Hollings deficit reduction proposal, Regents established ad hoc Committee on Museum Admissions. SI Management Analysis Office(MAO) | - Estimated $\$ 11.5$ million net revenue from admission fees <br> - Financial conclusions tentative due to lack of demographic data and adequate testing <br> - Budget cuts did not materialize and issue tabled |
| 1994 | Admission Fee Pilot Project at <br> NASM <br> Commission on the Future of the Smithsonian | - Estimated $\$ 3.5$ million net revenue at NASM for non-automated admission collections program <br> - Commission states that overall, it does not support mandatory admission fees |
| 1996 | Congress requested study to include feasibility of weekly and annual passes and pricing schedule responsive to different visitors. | - Estimated $\$ 11.3, \$ 15.6, \$ 19.1$, and $\$ 25.3$ million net revenue from admission fees based on four scenarios using two visit counts and two pricing schemes with constant expenses <br> - The Smithsonian occupies an essential part of a unique historical and cultural landscape in the Nation's Capital that includes national monuments, shrines, repositories, and related institutions that are places of pilgrimage for Americans and free of charge to the public <br> - The Institution is perceived as the embodiment of the Nation and its history and as the place where people can go to experience their history and culture. It should be as accessible as possible <br> - The Smithsonian was only just beginning to explore other avenues of untapped sources of philanthropic and commercial funding |

Table 1. Smithsonian General Admission Fee Studies (continued)

| Year | Impetus and study group | Upshot |
| :---: | :---: | :---: |
| 2001 | Smithsonian Business Ventures requested feasibility study of suggested admission fee system in wake of dramatic decrease in business revenues following September 11. Office of Policy and Analysis | - Estimated \$32.1million (suggested fee) and \$43.5 million (mandatory fee) net revenue from admission fee + memberships <br> - A mandatory fee system would not generate enough revenue over a suggested fee system to justify additional negative effects, e.g. explicit barrier to access for lower income visitors <br> - The timing, soon after 9/11, might delay recovery from depressed visitation levels <br> - Startup and operating costs significant and uncertain; might exceed assumption of 20\% <br> - Risk of harm to Smithsonian’s image. A core of visitors, staff, and members of Congress would be seriously displeased, especially given that other federal cultural institutions do not charge an admission fee |
| 2006 | Per GAO recommendation, ad hoc Committee on Facilities Revitalization explored nine funding options to address facilities backlog. Office of Planning, Management and Budget. | - Estimated $\$ 50.7$ million from admission fees $+\$ 6.9$ million in new membership revenue <br> - Free admission is central to the mission of the Institution <br> - Visitors would react badly <br> - Visitation would drop and income from Smithsonian businesses would decline <br> - Admission fees penalize visitors in lower income brackets <br> - Potential for political backlash |

## Experience of other National Museums

In 1997, the Museums and Galleries Commission (MGC) commissioned a study of admission fee practices at national museums in the United Kingdom. (Bailey 1998). The findings about museums in Great Britain are descriptive of the patchwork of admission fee practices still found across national museums in the U.S. and other countries today:

- Wide variation in the levels of admission charges throughout the museum sector.
- Museums in general did not have well articulated charging policies; rather, admission charges were justified primarily due to financial necessity.
- Virtually all public sector museums offered reduced rates for children and students, many waiving them altogether.
- Half of national museums imposed charges for special or temporary exhibitions. In some cases, revenue generated from special exhibitions at "non charging" museums exceeded revenue generated by "charging" museums.

Table 2 summarizes the experiences of various countries with charging admission fees at government sponsored museums. A more detailed listing of museums and current charging practices is found in Appendix A.

Table 2. Charging Practices at Government Sponsored Museums

| Country | Experience with Admission Fees |
| :---: | :---: |
| Australia | - 1992 study found $50 \%$ to $80 \%$ drop in visits following introduction of fees at Australian Museum, Sydney; Powerhouse Museum, Sydney; and Museum of Victoria, Melbourne <br> - 1996. Newcastle Regional Museum in New South Wales removed fees and visit numbers quadrupled <br> - May 2000. Museum of Contemporary Art, Sydney dropped admission fee and visit count doubled <br> - Today, about half of national museums charge (e.g., Powerhouse Museum, Australian Museum) and half are free (e.g., National Gallery of Art, and Museum of Australia). Charging museums have free and/or discounted rates for members, children, seniors, etc. <br> - Most free museums charge for special exhibitions. |
| Canada | - Canadian national museums charge; most offer free days |
| China | - March 2008. Ceased admission charges to all national museums and provincial comprehensive museums |
| France | - January 2008. Began six month experiment with free admission to 18 national and regional museums' permanent collections on one night a week for visitors ages 18 to 25 (under 18 always free) |
| Germany | - German national museums charge; some offer free days |
| Scotland | - April 2001 introduced free admission as result of financial support from the Scottish Executive Assembly (National Museum and National Galleries are free; other national museums charge) |
| Sweden | - 2005. Removed all charges from most state and state-supported museums (most in Stockholm) and number of visits nearly doubled. <br> - January 1, 2007. Reintroduced admission charges. According to Swedish Arts Council, attendance at 19 national museums (16 in Stockholm) decreased by 40\% in 2007 compared to 2006. |
| United Kingdom | - Historically no admissions <br> - 1980s. Half of national museums instituted admission fees. The other half, including British Museum, Tate \& National Gallery remained free. Visitation at free museums grew; it declined at charging museums. <br> - December 2001. Free entry introduced across England’s national museums (owing to government financial incentives). From 2001 to 2006, museum attendance increased overall by $30 \%--83 \%$ increase at former charging museums (e.g., Victoria and Albert, National Museums, Liverpool and Museum of Science \& Industry, Manchester) and 8\% increase at "always free museums." (DCMS 2006) |
| United States | - National museums and cultural institutions in Washington DC (e.g., Smithsonian, National Gallery of Art, Holocaust, Archives, Library of Congress) and monuments maintained by National Park Service historically free. The National Aquarium (Dept. of Commerce) in Washington, DC charges nominal general admission with discounts |
| Wales | - April 2001 introduced free admission as result of financial support from the Welsh Assembly (all national museums are free) |

## Three Assumptions

Much of the literature on museum admission charges questions three common assumptions:

1. Charging or not charging is an all or nothing proposition (free admission vs. compulsory fixed charges)

Only a minority of museum visitors pay the full rate for admission. A useful framework in thinking about admission charges is "who pays what, when and how?" (Bailey and Falconer, 1998). Likewise, O’Hagan describes various pricing systems. (O’Hagan, 1995).

- No entrance fee + no donation box
- Voluntary entrance fee/donation box: no stipulated level of donation
- Voluntary entrance fee/donation box: suggested level or range of donations
- No entrance fee; charge for special exhibitions and programs
- Mandatory, fixed entrance fee with reduced rates for certain categories, e.g., children; school groups; elderly; members; frequent user/family/group passes; other discounts, e.g., AAA; local residents; free admission on certain days/weeks. ${ }^{3}$

2. Imposition of an attendance charge will result in lower visitation; conversely removing charges results in higher visitation

Evidence of the effect of admission fees on the level, patterns, and duration of attendance at national museums is inconclusive. A fall in numbers after introduction of charges may be compensated for by an increase in the duration of visits. Conversely, more visits after lifting admission fees might be attributed to shorter repeat visits. (O’Hagan, 1995; Falconer and Blair, 2003). ${ }^{4}$

Studies show that quality characteristics are much more important influences on demand than price. (Kirchberg, 1998). UK museum managers were cautious about the government's assertion of a positive link between removal of general admission in 2001 and an increase in visit numbers - they maintained that free admission was one of several factors including opening of new exhibitions; improvements to museum buildings; and improved transportation links making museums more accessible. (Falconer and Blair, 2003).

In terms of access (as differentiated from on-site visits) some would argue that a general admission fee actually improves access if receipts are used to keep the

[^1]museum open longer hours, improve outreach efforts, or add educational interpretation that makes the material more accessible. (Bailey and Falconer, 1998).
3. Charging for admission will result in a disproportionate decrease in attendance by lower socio-economic groups.

Various survey studies reveal that reasons such as lack of interest and lack of time are more important "barriers to access" than admission charges. The decision to participate is a matter of lifestyle and not driven by the level or existence of an entrance fee. (Falconer and Blair, 2003). For the DE social classes ${ }^{5}$ - the prime target for the UK Department of Culture Media and Sport's inclusion strategies - 11\% cited "Admissions charges are too high" as a reason for not visiting. Top reasons were "Not interested" (27\%); "No time/too busy" (20\%); and "Nothing in particular I want to see" (20\%). (MORI, 2004)

Other studies, notably a 1995 survey in Germany, do demonstrate that the variables of income, education, and occupational status have a combined impact on the assessment of price as a barrier to museum attendance - people in the lowest income bracket were five times as likely to regard entrance fees as a barrier as people in the highest income bracket. (Kirchberg, 1998).

As a result of the UK Government's policy to enable free access to its sponsored museums, the number of visits from people of lower socio-economic groups rose from 5.4 million in 2002-2003 to 6.5 million in 2004-2005, an increase from $16 \%$ to $18 \%$ of total visits. (DCMS, 2007).

[^2]
## The Case For and Against Charging

Table 3 summarizes the most prevalent financial, economic, ideological, political and practical arguments for and against charging a general admission fee found in Smithsonian and other reports and the academic literature.

Table 3. Arguments For and Against Instituting a General Admissions Fee
$\left.\begin{array}{||l|l||}\hline \begin{array}{l}\text { Social equity } \\ \text { and ideological }\end{array} & \begin{array}{l}\text { A general admission fee would be an additional financial barrier for visitors, } \\ \text { although effects could be mitigated somewhat }\end{array} \\ \hline \hline \begin{array}{l}\text { Arguments } \\ \text { against charging }\end{array} & \begin{array}{l}\text { - National collections belong to the citizens and should be available to them without } \\ \text { charge. Charging admission contradicts the notion of inclusion. }\end{array} \\ \text { - Free admission enables the widest public access. Admission charges are a potential } \\ \text { barrier to participation of lower income individuals and families. } \\ \text { - The Smithsonian and most other national museums (e.g., NGA, Holocaust), monuments } \\ \text { and cultural institutions (e.g., National Archives, Library of Congress) in Washington } \\ \text { DC have traditionally been free }\end{array}\right\}$

Table 3. Arguments For and Against Instituting a General Admissions Fee (continued)

| Financial | A general admission fee would be a source of unrestricted revenues, but with the possible loss of philanthropic contributions and sales in museum stores and restaurants |
| :---: | :---: |
| Arguments against charging | - The amount of revenue that could be collected from a general admission fee could be more effectively and efficiently obtained from other sources <br> - Philanthropic contributions might drop due to disaffected donors <br> - Startup costs of admission booths and cost of administering admission fee program <br> - Reduced sales in stores and restaurants and for auxiliary services/activities (e.g., IMAX, simulators) due to decreased visitation and/or unwillingness to pay more above admission (Approx. $1 / 4$ of visitors said they would spend less in 2001 OP\&A survey) <br> - Revenues from new memberships are offset by loss in revenues due to store discounts <br> - Increased revenues from alternative sources could lead to offsets in Federal funding (but note, Congress stressed no offset policy with 1996 Recreation Fee Demonstration Program with National Park Service and Forest Service) |
| Arguments for charging | - Institution generated and controlled stream of unrestricted revenues from admissions to address critical funding shortfalls <br> - Increased memberships with benefit of free admission <br> - Increased sales in stores and restaurants and for auxiliary services/activities (e.g., IMAX, simulators) with longer visits <br> - Allows establishment of promotional packages with travel industry partners <br> - Sponsorship opportunities for free days, e.g. Target sponsorship of free admission to CHNDM during National Design Week <br> - Shorter visits and greater numbers (with free admission) mean greater maintenance costs due to wear and tear on facilities and extra staff to cope with crowds |

Table 3. Arguments For and Against Instituting a General Admissions Fee (continued)

| Economic | The demand for museum visiting is generally inelastic. |
| :--- | :--- |
| Arguments <br> against charging | - National museums are a public good (i.e., contribute to sense of national identity and <br> belonging) that should be paid for out of general taxation. Charging admission to a <br> federally-financed public institution could be perceived as a double tax on visitors. <br> - Visitors to Washington, DC might visit other free national museums and monuments <br> rather than come to SI |
| - Decrease in visitation could be substantial. Other national museums, e.g., in the UK and |  |
| Sweden, have experienced drops in attendance after instituting admission charges, and |  |
| increased attendance after removing them. |  |

Table 3. Arguments For and Against Instituting a General Admissions Fee (continued)

| Political and legal | General admission charges could generate negative reactions although user fees have been approved for recreational use of national parks and forests |
| :---: | :---: |
| Arguments against charging | - Adverse public reaction and negative media publicity could damage public image. <br> - Political opposition from some in Congress, e.g., objection to fees for special exhibitions; H.R. 5424 Smithsonian Free Admissions Act. <br> - Four SI museums-NPG, HMSG, NMAfA, and FGA-are prohibited from charging admission by statute, wills, or bequests. Could result in public confusion and irritation at being charged at some museums and not others, especially where museums with and without restrictions share building (NPG/SAAM and NMAfA/FSG/Ripley Center). |
| Arguments for charging | - Some members/officials in Congress and Administration have encouraged examination of admission fees. <br> - User fees for federal recreation (e.g. National Park Service and US Forest Service) are generally accepted as means to address deferred maintenance. <br> - Strong indicator to Congress that SI is trying to overcome funding shortfall problems, in particular as relates to facilities maintenance backlog. <br> - Admissions fees will not be seen as a negative by stakeholders if well communicated that they will be used to improve services, e.g., longer hours, more outreach, more educational interpretation. |

Table 3. Arguments For and Against Instituting a General Admissions Fee (continued)

| Behavioral and <br> practical | Facility modifications would degrade museum aesthetics although services may <br> be more visitor centered |
| :--- | :--- |
| Arguments <br> against charging | - Physical space changes to accommodate admission fee program (e.g., ticket sales, <br> admission counter ) would impact traffic flow, security/crowd control and museum <br> aesthetics |
| - Visitors can come back as many times as they like and explore as much of the museum |  |
| as possible. (But note this would hold true for members and those visiting at a free time |  |
| with admission charges.) Charging for admission changes the orientation from casual |  |
| and repeatable (much like a library) to an occasion. |  |$|$| - More audience-centered operations: imposition of charges may make museum staff |
| :--- |
| more accountable and responsive to the "customer" |

## Estimating the Revenue Effect of Admission Charges

Appendix B contains a detailed description of the steps and considerations used to estimate the range of possible revenues from different charging schemes. In short, the exercise includes:

- Estimating the number of visitors who will pay an admission fee
- Estimating gross revenues from admission fees based on a table of charges and fee levels to demographic groups
- Estimating the net admissions revenue by subtracting annual operating costs and amortized costs of start-up from the estimated gross revenues
- Estimating the effect of admission fees on other streams of revenue
- Applying a cost deflator such as the Consumer Price Index (CPI) for comparison across years

Table 4 shows the types and levels of charges and demographic groups considered in the prior six Smithsonian studies.

Table 4 Admission Fees by Study

| Visitor <br> Characteristic | $\mathbf{1 9 5 4}$ | $\mathbf{1 9 8 6}$ | $\mathbf{1 9 9 4}$ <br> NASM | $\mathbf{1 9 9 6}$ <br> (low) | $\mathbf{1 9 9 6}$ <br> (high) | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 6}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5-day pass full | - | $\$ 4.00$ | - | - | - | - | - |
| 5-day pass <br> reduced | - | $\$ 3.00$ | - | - | - | - | - |
| 7 -day pass full | - | - | - | $\$ 5.00$ | $\$ 7.00$ | $*$ | - |
| 7-day pass <br> reduced | - | - | - | $\$ 4.00$ | $\$ 6.00$ | $*$ | - |
| Regular | $\$ 0.25$ | $\$ 2.00$ | $\$ 1.00$ | $\$ 2.00$ | $\$ 3.00$ | $\$ 10.00$ | $\$ 10.00$ |
| Discount | $\$ 0.10$ | $\$ 1.50$ | $\$ 0.50$ | $\$ 1.50$ | $\$ 2.50$ | $\$ 7.00$ | $\$ 7.00$ |
| Child | - | free | free | free | free | free | free |
| School group | - | free | free | free | free | free | free |
| Tour group | - | - | $\$ 0.50$ | - |  | $\$ 3.00$ | $\$ 3.00$ |
| Member | - | free | $\$ 0.50$ | free | free | free | free |
| Free days | - | $2 / m o$. | - | $2 / m o$. | $2 / m o$. | - | - |
| Affiliate members | - | - | - | - | - | - | $50 \%$ |

* Fees covered the entire visit that could be multi-day.

The estimated amounts of revenue depend on the level of admission fees and projected attendance. When the estimates in the previous studies are compared using constant dollars and identical visit count expectations, the estimates are remarkably consistent. In 2008 dollars and adjusted to 27 million visits, the estimates of net revenues from admission fees arrived at in Smithsonian studies (excluding the 1994 pilot study of NASM only) range from a low of $\$ 18.4$ million to a high of $\$ 50.8$ million (taking into account purchases of new memberships and estimated net effects on income from auxiliary business operations such as stores, restaurants, IMAX theaters, etc.) (See Chart 1.)

Chart 1 Estimated Net Admission Revenues in 2008 Dollars


## Conclusion

The dilemma of whether nor not to charge for admission to a national museum is echoed in the area of public recreation fee policy:
"There has been a pervasive impulse to depend upon a strictly economic paradigm to answer public lands fee and pricing questions though there are huge social science issues of equity, public trust, government subsidies for public goods, and fair pricing that extend beyond traditional economic models." (Watson and Herath, 1999).

Arguing for free art museums, Smith describes the intangible worth of museums that is not easily monetized or quantified. (Smith, 2006):
"While the art world often wonders out loud if art can change society, it seems fairly certain that museums can. They put us in touch with the world and its history. They reveal to us our own feelings, talents and capacities, shaping our idea of what we can become. They give us the visual equivalent of things sorely needed today: an understanding of difference, and therefore, of tolerance."

As outlined above, the arguments and counter arguments to implementing a precedent setting general admission charge at the Smithsonian have been extensively deliberated on at least six occasions in the Institution's recent history. In the final analysis, the intangible advantages to the Institution of maintaining its policy of not charging, together with economic and financial considerations that would reduce net return from admission charges, far outweighed the potential financial or other gains, even in times when the Institution was facing severe funding shortfalls and uncertain economic climates.

Ultimately, the Smithsonian has decided that the social equity of not placing any additional financial barrier on access by all Americans is more important to the Institution than benefits that might accrue from revenues resulting from a policy of charging general admission fees.

## Bibliography

Bailey, Stephen J. and Peter Falconer. 1998. "Charging for Admission to Museums and Galleries: A Framework for Analysing the Impact on Access. Journal of Cultural Economics. Volume 22, Numbers 2-3, p. 167-177, June.

Been, Ingeborg, Krista Visscher and René Goudriaan. 2002. "Fee or Free?" Working Paper Series.

Department for Culture Media and Sport (DCMS). 2007. Culture and Creativity in 2007. London, March.

Falconer, Peter K. and Sharon Blair. 2003. "The Governance of Museums: a Study of Admission Charges Policy in the UK." Public Policy and Administration. Volume 18, No. 2, p. 71-88, Summer.

Frey, Bruno S. and Stephan Meier. 2003. "The Economics of Museums." Institute for Empirical Research in Economics, University of Zurich, Working Paper Series, No. 149, May.

Gurian, Elaine Heumann. 2007. "Free at Last: A case for the elimination of admission charges in museums, 2005." In Civilizing the Museum: the collected writings of Elaine Heumann Gurian. New York: Routledge. p. 127-134.

Kirchberg, Volker. 1998. "Entrance Fees as a Subjective Barrier to Visiting Museums." Journal of Cultural Economics. Volume 22, Number 1, p. 1-13, March.

Klein, Julia M. 2001. "Entry Fees Might Help Smithsonian Balance Missions and Budgets." Chronicle of Higher Education. Vol. 47, Issue 48, August 10.

Luksetich, William A. and Mark D. Partridge. 1997. Demand Functions for Museum Services. Applied Economics. 29. 1553-59

Maddison, David and Terry Foster. 2003. "Valuing congestion costs in the British Museum." Oxford Economic Papers Volume 55, No. 1, p. 173-190.

MORI (Market and Opinion Research International). 2004. Visitors to Museums and Galleries 2004. Conducted for Museums, Libraries and Archives Council, London, March.

O’Hagan, John W. 1995. "National Museums: To Charge or Not to Charge." Journal of Cultural Economics. Volume 19, Number 1, p. 33-47, March.
$\qquad$ . 1996. "Access to and Participation in the Arts: the Case of Those with Low Incomes/Educational Attainment." Journal of Cultural Economics. Volume 20, p. 269-282.

Smithsonian Institution. 1995. E Pluribus Unum: this Divine Paradox. Report of the Commission on the Future of the Smithsonian Institution. May.
$\qquad$ . 1996. Study of the Feasibility of Implementing Admission Charges at the Smithsonian Institution. May.
$\qquad$ . 1997. Visitors and Non-Visitors to Amber: Window to the Past: An Exhibition at the National Museum of Natural History. Institutional Studies Office, October.
__ 2001. A Preliminary Examination: Suggested and Mandatory Admission Fees. Office of Policy and Analysis, December.
$\qquad$ . 2007. Going Free? Cooper-Hewitt National Design Museum and General Admission Fee. Office of Policy and Analysis, April.
. 2007. General Admission Fee Program. Issue Paper prepared for Board of Regents, Office of Planning, Management and Budget, Updated June 14.

Steiner, Faye. 1997. "Optimal Pricing of Museum Admission." Journal of Cultural Economics. Volume 21, p. 307-333.

US Congress. 2008. H.R. 5424 [110 $\left.{ }^{\text {th }}\right]$ : Smithsonian Free Admission Act. February 13.
Watson, Alan E. and Gamini Herath. 1999. Research Implications of the Theme Issues "Recreation Fees and Pricing Issues in the Pubic Sector" (Journal of Park and Recreation Administration) and "Societal Response to Recreation Fees on Public Lands" (Journal of Leisure Research). Journal of Leisure Research. Vol. 31, No. 3, pp. 325-334

Zan, Luca. 2000. Management and the British Museum. Museum Management and Curatorship 18(3). 221-70.

## Newspaper articles

Anderson, Maxwell L. 2005. "Warning: Earned Income Can Be Bad for Museum Health." The Art Newspaper. December.

Boyes, Roger. 2007. "Death camps call for right to charge for entry ticket." Times Newspapers, Ltd, May 31.

China View. 2008. "China offers more public cultural service." March 4. http://news.xinhuanet.com/english/2008-03/04/content_7713445.htm.

Department for Culture Media and Sport (DCMS). 2006. "Tessa Jowell hails 'inspirational’ 29 million extra visits to national museums since admission charges scrapped five years ago." Press notice, February 15.

Dunlap, David W. 2006. "Group Protests Plan to Charge Fee to enter 9/11 Museum." The New York Times, April 11.

Jury, Louise. 2006. "Five million take advantage of free entry at museums, but some institutions still suffer." The Independent, March 22.

McNulty, Timothy. 2007. "Museum admission to be dinosaur sized: Carnegie to hike prices when expanded exhibit opens Nov. 21." Pittsburgh Post-Gazette, August 22.

The New York Times. 2008. "France is Trying Free Museum Admission." January 7.
Russell, Ben and Jerome Taylor. 2007. "Why museums must stay free." The Independent, June 18.

Smith, Roberta. 2006. "Should Art Museums Always Be Free? There’s Room for Debate." The New York Times. July 22.

Trescott, Jacqueline. 2006. "Admission Fee Idea Floated For Smithsonian." The Washington Post, March 30, Page C01.
$\qquad$ . 2007. "Smithsonian Will Charge for Butterfly Pavilion." The Washington Post, April 25.

## Appendix A: Admission Fee Practices of National Museums outside the U.S. (Fees in currency of country)

| Country | Museum | Free General Admission | Member | Family | DomesticAdult fee | DomesticChild fee | Free child | DomesticPensioner fee | Special exhibition charge |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Australia | National Gallery of Art | Free |  |  |  |  |  |  | Yes |
|  | National Gallery of Victoria | Free |  |  |  |  |  |  | Yes |
|  | National Portrait Gallery |  | Free | 5 | 2 | 1 |  | 1 |  |
|  | National Museum of Australia | Free |  |  |  |  |  |  | Yes |
|  | National Science and Technology Centre |  | Free | 49 | 18 | 11.5 | Under 5 | 13 |  |
|  | Powerhouse Museum |  | Free | 25 | 10 | 5 | Under 14 | 6 |  |
|  | Australian Museum |  | Free | 25 | 10 | 5 | Under 5 | 5 | Yes |
| Canada | Canadian Aviation Museum |  | Free | 14 | 6 | 3 | Under 4 | 5 |  |
|  | National Gallery of Canada |  | Free | 18 | 9 | 5 | Under 12 | 7 | Yes (includes admission) |
|  | Canada Science and Technology Museum |  | Free | 18 | 7.5 | 3.5 | Under 4 | 5 |  |
|  | Canadian Museum of Civilization | Some days | Free | 25 | 10 | 6 | Under 3 | 8 | Yes |
|  | Canadian War Museum | Some days | Free | 25 | 10 | 6 | Under 3 | 8 |  |
|  | Canadian Museum of Nature | Some days | Free | 13 | 5 | 5 | Under 3 | 5 |  |
| China | National Museum of China | Free |  |  |  |  |  |  |  |
| Denmark | National Museum of Denmark | Free |  |  |  |  |  |  |  |

Appendix A: Admission Fee Practices of National Museums outside the U.S. (continued)

| Country | Museum | Free <br> General <br> Admission | Member | Family | DomesticAdult fee | DomesticChild fee | Free child | Domestic- <br> Pensioner fee | Special exhibition charge |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| France | Centre Pompidou | First Sunday | Free |  | 10 or 12 |  | Under 18 (normally 13) | 8 or 9 |  |
|  | Museum of Air and Space | Free |  |  |  |  | Under 18 |  |  |
|  | Museum of Natural History (Gems and Minerals) |  | Free |  | 7 | 5 |  | 5 |  |
|  | Museum of Natural History (Zoological Park) |  | Free |  | 5 |  | Under 4 |  |  |
|  | Museum of Natural History (Museum of Man) |  | Free |  | 7 | 5 | Under 4 | 5 |  |
|  | Museum of Science and Industry |  |  |  | 11 | 8 | Under 7 | 8 |  |
|  | Les Invalides |  | Free |  | 8 | 6 | Under 18 | 6 |  |
|  | Louvre | First Sunday | Free |  | 9 or 6 |  | Under 18 |  | Yes |
| Germany | German Museum of Technology |  |  |  | 4.5 | 2.5 |  | 2.5 |  |
|  | Germanisches Nationalmuseum |  |  | 9 | 6 | 4 |  |  |  |
|  | Deutsches Museum |  | Free | 17 | 8.5 | 3 | Under 6 | 7 |  |
|  | Pinakothek der Moderne | 1 on Sundays | Free |  | 9.5 | 6 | Under 18 | 6 |  |

## Appendix A: Admission Fee Practices of National Museums outside the U.S. (continued)

| Country | Museum | Free General Admission | Member | Family | DomesticAdult fee | DomesticChild fee | Free child | Domestic- <br> Pensioner fee | Special exhibition charge |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Japan | National Museum of Ethnology (MINPAKU) | Some days | Free |  | 420 | 250 or 110 |  |  | Yes |
|  | Tokyo National Museum | Some days | Free |  | 600 |  | High school | Free (over 70) | Yes |
|  | Kyoto National Museum | 2nd \& 4th <br> Saturdays | Free |  | 500 | 400 | Middle school | Free (over 70) | Yes |
|  | National Museum of Art, Osaka |  | Free |  | 420 | 130 | Under 19 | Free (over 65) | Yes |
| Scotland | National Museum | Free |  |  |  |  |  |  |  |
|  | National Galleries Scotland | Free |  |  |  |  |  |  |  |
|  | National War Museum | Free with Edinburgh Castle (EC) | 10\% |  | 11 (EC) | 5.5 (EC) | Under 5 <br> (EC) | 9 (EC) |  |
|  | National Museum of Costume |  | Free |  | 3 |  | Under 13 | 2 |  |
|  | National Museum of Rural Life |  | Free |  | 5 |  | Under 13 | 4 |  |
|  | National Museum of Flight |  | Free |  | 8.5 | $\begin{aligned} & 2 \text { (12 and } \\ & \text { under) } \end{aligned}$ |  | 6.5 |  |
| Sweden | National Museum |  | Free |  | 100 |  | Under 19 | 80 |  |

## Appendix A: Admission Fee Practices of National Museums outside the U.S. (continued)

| Country | Museum | Free <br> General Admission | Member | Family | Domestic- <br> Adult fee | DomesticChild fee | Free child | Domestic- <br> Pensioner fee | Special exhibition charge |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United Kingdom | British Museum | Free |  |  |  |  |  |  | Yes |
|  | Imperial War Museum | Free |  |  |  |  |  |  | Yes |
|  | Imperial War Museum Duxford |  | Free |  | 16 | 12.8 | Under 18 | Several | Yes |
|  | National Gallery | Free |  |  |  |  |  |  | Yes |
|  | Tate Modern | Free |  |  |  |  |  |  | Yes |
|  | Victoria and Albert | Free |  |  |  |  |  |  | Yes |
|  | Natural History | Free |  |  |  |  |  |  | Yes |
|  | Science Museum | Free |  |  |  |  |  |  | Yes |
| Wales | National Museum, Cardiff | Free |  |  |  |  |  |  |  |
|  | St. Fagans: National History Museum | Free |  |  |  |  |  |  | Park 2.5 |
|  | Big Pit: National Coal Museum | Free |  |  |  |  |  |  |  |
|  | National Wool Museum | Free |  |  |  |  |  |  |  |
|  | National Waterfront Museum | Free |  |  |  |  |  |  |  |

## Appendix B: Estimating the Revenue Effect of Admission Charges

1. Estimate the number of visitors who will pay an admission fee
a. Specify the base visitation count. In the case of Smithsonian museums, visit counts are based on hand-counts by security officers of all persons exiting or entering through a building door. In the case of the National Zoo, in recent years visit counts are estimated as a percentage of a hand-count of persons exiting the Giant Panda exhibit. The Zoo has never reported hand-counts of entering or exiting visitors like other Smithsonian facilities. Hand-counts are inaccurate since some exiting persons are employees, contractors, itinerant visitors using restrooms or passing through a building to get to the other side, and those who enter to eat or shop, but not visit exhibits. In the case of four Mall venues (Freer Gallery, Sackler Gallery, Ripley Center, and African Art), it is possible for a visitor to visit all four venues, but be counted only once. Some visitors enter and exit the same venue more than once during a specific visit. All studies have decreased the number of visits reported by the Office of Protection Services by careful guesstimates to account for over-counts.
b. Smithsonian Mall museum visitors have typically visited more than one venue on a visit. Based on previous research, the typical Mall visitor will visit between 2.5 and 3 venues. Additionally, some visitors will visit more than once over the year. The number of unique visitors is significantly lower than the reduced visitor count mitigating the effect of over-counting.
c. The composition of the Smithsonian visitor population is estimated using a combination of statistics from visitor surveys and guesstimates of persons not included in visitor surveys, e.g., school groups and organized tour groups for which the Smithsonian has never reported official statistics.
d. All studies except the 2002 study used gross demographic categories. The 2002 study used visit group composition and residence to estimate annual revenues.
2. Estimate gross revenues from admission fees
a. Establish a table of charges: full, reduced (one or more level), and free.
b. Assign fee levels to demographic groups, e.g., members are free, adults pay the full fee, seniors and students pay reduced fees, children and school groups are free, tour groups pay a reduced fee, visitors on free days, etc.
c. Some visitors, faced with an unexpected admission fee, may choose to not visit at all or visit on a free day if available. Studies have reduced the number
of visitors by the rejection rate or incorporated them into free day attendance if available.
d. To estimate the gross admission revenue, multiply the percentage of visitors (from 1c) by the estimated number of visitors by the fee that that group will pay.
3. Estimate the net admissions revenue by subtracting amortized estimated costs of start-up (building fee booths, purchasing equipment, etc.) and annual operating costs (personnel, supplies, charge card services, etc.) from the estimated gross revenues.
4. Estimate the effect of admission fees on other streams of revenue.
a. Some visitors who pay an admission fee will spend less on auxiliary retail services in museums (stores, IMAX theaters, simulators, food services, etc.).
b. Some visitors will purchase a Smithsonian membership instead of paying an admission fee. Those visitors will probably be admitted free on later visits during the year.
5. The total effect of admissions fees on the Smithsonian's income is the net revenue adjusted by increases or decreases associated with the sales of memberships and use of auxiliary services during visits. Early studies did not include evenues from new memberships.
6. For comparison across years, net revenues and total effects can be estimated by applying a cost deflator such as the Consumer Price Index (CPI). Differences between years are due to slight differences in estimated demographics and reductions for over-counts.

[^0]:    ${ }^{1}$ Office of Management and Budget (OPMB) staff contributed to this report.
    ${ }^{2}$ The Smithsonian's Cooper-Hewitt National Design Museum in New York charges admission. The Smithsonian has charged admission to special exhibitions in the past (e.g., Dinamation; Amber); it recently instituted a fee for the Live Butterfly Pavilion at the National Museum of Natural History. In addition, visitors must pay to park at the NASM Udvar-Hazy Center in Chantilly, VA.

[^1]:    ${ }^{3}$ Free admission to the Louvre obtains to visitors under the age of 18 ; unemployed individuals and visitors receiving benefits (proof of entitlement required, dated within the last six months); disabled visitors and their guests or helpers; teachers of art, art history, and the applied arts (valid proof required); and artists affiliated to the Maison des Artistes (in France) or the AIAP (Association Internationale des Arts Plastiques). In addition, admission is free for visitors under the age of 26 every Friday from 6 p.m. to 9:45 p.m. (except for exhibitions in the Hall Napoléon).
    ${ }^{4}$ In addition, practices of recording number of visits may vary between museums that charge and free museums, i.e., charging museums may not count members; free museums may over count due to staff entering the museum.

[^2]:    ${ }^{5} \mathrm{D}=$ Working class, semi and unskilled manual workers comprising $16.9 \%$ of the population and $\mathrm{E}=$ those at the lowest levels of subsistence, e.g., state pensioners with no other earnings comprising $11.7 \%$ of the population.

