

The Hammers That Forge Time

for Javanese gamelan

David M. Gordon

The Hammers That Forge Time

for Jui-Ching Wang, Gregory Beyer, and the NIU Percussion Ensemble, in honor of NIU's 125th Anniversary

Duration: ca. 11'30"

Instrumentation

- **Saron Panerus (a.k.a. Peking)**
 - Needs 2 sarons—1 in pelog, 1 in slendro
 - Needs 1 normal hammer
 - See below for special setup instructions
- **2 or 4 Sarons Barung (1 or 2 Sarons Barung I, 1 or 2 Sarons Barung II)**
 - Each player needs 2 sarons—1 in pelog, 1 in slendro
 - Each player needs 1 normal hammer and 2 medium-hard yarn mallets
 - Each part must have the same number of players (i.e., 1 or 2)
 - Markings that specify a particular number of players (e.g., 1. Solo, a2) should be disregarded if there is only 1 player per part
 - See below for special setup instructions
- **2 Sarons Demung (1 Saron Demung I, 1 Saron Demung II)**
 - Each player needs 2 sarons—1 in pelog, 1 in slendro
 - Each player needs 1 normal hammer and 2 medium-hard yarn mallets
 - See below for special setup instructions
- **Slentem**
 - Needs 2 slentems—1 in pelog, 1 in slendro
 - Needs 2 normal mallets
 - See below for special setup instructions
- **Gender Barung**
 - Needs 2 genders—1 in pelog, 1 in slendro
 - The pelog gender needs the following pitches: 1, 2, 3, 5, 6, †1, †2, †3, †5, †6
 - The slendro gender needs the following pitches: 1, 2, 3, 5, †1, †2, †3, †5
 - Needs 2 normal mallets and 2 medium-hard yarn mallets
 - See below for special setup instructions
- **Gambang**
 - Needs 2 gambangs—1 in pelog, 1 in slendro
 - The pelog gambang needs the following pitches: ↓1, ↓2, ↓3, 1, 2, 3, 5, 6, †1, †2, †3, †5, †6
 - The slendro gambang needs the following pitches: 1, 2, 3, 5, †1, †2, †3, †5, †6
 - Needs 2 normal mallets

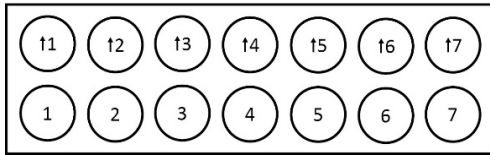
- **Bonang Panerus**
 - Needs 2 bonangs—1 in pelog, 1 in slendro
 - Needs 2 normal mallets and 2 hard yarn mallets
 - See below for special setup instructions
- **Bonang Barung**
 - Needs 2 bonangs—1 in pelog, 1 in slendro
 - Needs 2 normal mallets and 2 hard yarn mallets
 - See below for special setup instructions
- **Kenong**
 - Needs 2 kenong sets—1 in pelog, 1 in slendro
 - The pelog kenong set needs the following pitches: 2, 3, 5, 6, 7, ↑1
 - The slendro kenong set needs the following pitches: 2, 3, 5, 6, ↑1
 - Needs 2 normal mallets and 2 medium-hard yarn mallets
- **Ketuk/Kempyang**
 - Needs ketuk/kempyang sets—1 in pelog, 1 in slendro
 - Needs 2 normal mallets and 2 hard yarn mallets
- **Kendang**
 - Needs 2 drums—1 large and 1 medium or small
- **Kempul**
 - Needs 2 kempul sets—1 in pelog, 1 in slendro
 - The pelog kempul set needs the following pitches: 3, 5, 6, 7, ↑1, ↑2
 - The slendro kempul set needs the following pitches: 3, 5, 6, ↑1, ↑2
 - Needs 2 normal beaters and 2 medium rubber mallets
- **Gongs**
 - Needs 2 gongs—1 gong ageng, 1 gong suwuk
 - Needs 2 normal beaters and 1 medium rubber mallet

Special Gamelan Requirements and Setup

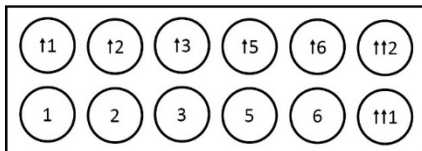
- The work must be performed on a gamelan with both pelog and slendro instruments.
- The gamelan must be tuned so that pelog 4 is the same (or nearly the same) as slendro 5.
- The saron, slentem, and gender players' instruments must be set up as follows:



- The gongs of the pelog bonangs should be set up as follows:



- The gongs of the slendro bonangs should be set up as follows:



Special Notations

$\frac{ }{2} \quad \frac{ }{3}$	Notes below the line = play in pelog
$\frac{2}{ } \quad \frac{3}{ }$	Notes above the line = play in slendro
$\frac{ }{2} \quad \frac{3}{ }$	Notes without arrows = play in the main/middle octave
$\frac{\uparrow}{2} \quad \frac{3}{\uparrow}$	Notes with upward arrows = play in the octave above the main/middle one
$\frac{\downarrow}{2} \quad \frac{3}{\downarrow}$	Notes with downward arrows = play in the octave below the main/middle one
$\frac{\dagger}{2} \quad \frac{3}{\dagger}$	Notes with horizontal slashes = play in octaves (written pitches + pitches an octave higher)
$\frac{ }{2} \quad \frac{\circ}{3}$	o = strike the angled portion of the gong in a place that produces a high harmonic
$\frac{ }{T} \quad \frac{ }{T}$	T = ketuk
$\frac{ }{P} \quad \frac{ }{P}$	P = kempyang
$\frac{ }{0}$	0 below the line = gong ageng
$\frac{0}{ }$	0 above the line = gong suwuk
$\frac{*}{2} \quad \frac{3}{*}$	X = play on the flat surface of the gong rather than the button

Mallet Abbreviations

Btr Normal Beater(s)	MHY Medium-Hard Yarn Mallet(s)
Hmr Normal Hammer	Mlt Normal Mallet(s)
HY Hard Yarn Mallet(s)	MR Medium Rubber Mallet(s)